KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by S.K.P.V.V. Hindu High Schools' Committee)
III SEMESTER END EXAMINATIONS OCT 2024 (Supplementary)

					B.	.Sc						B.C	om			100000
DATE	TIME	и.р.с	M.P.CS	M.S.CS	M.E.CS	M.C.CS	CBZ	DATA SCIENCE	ют	B,Voc.	GEN	T.P	COMP	LOGISTICS	BBA	BCA
14.10.2024 (Monday)	02.00 to 4.00 P.M	Environmental Education R20LSC304	Environmental Education R20LSC304	Environmental Education R20LSC304	Environspental Education R20LSC304	Environmental Education R20LSC304	Environmental Education R201SC3D4	Environmental Education R20L5C304	Environmental Education R20LSC304	Environmental Education R20LSC4(14	Environmental Education R201,5C304	Environmental Education #20LSC304	Environmental Education R20LSC304	Environmental Education R20LSC304	Environmental Education RZOLSC304	Environmental Education R20LSC304
15.10.2024 (Tuesday)	02.00 to 4.00 P.M	Analytical Skills R20LSC391	Analytical Skills R20LSC301	Analytical Skills RZOLSC301	Analytical Skins R20LSC301	Analytical Skills RZSLSC301	Analyticai Skiils #20LSC301	Analytical Sidils R2D65C301	Analytical Skills R2015C361	, *a	Apalytical Skills R20LSC301	Analytical Skills #20L50301	Analytical Skills R2GUSC301	Analytical Shilis B20LSC301	Analytical Skills R20L5C301	Analytical Skills R20LSC301
16.10.2024 (Wednesday)	02.00 to 4.00 P.M	Environmental Audit R20SDC301C	Environmental Audit R20SDC301C	Environmental Audit R20SDC301C	Environmental Audit R20SDC301C	Environmental Audit R2080C301C	Environmental Audit RZOSDC301C	Environmental Audit R20SDC301C	Environmental Audit RZDSDC301C		Retailing R20SDG3928	Retailing 820SDC302B	Retailing R20SDC302B	Retalling R20SDC3028	Retailing R20SDC362#	Retailing R20SDC30ZB
17.10.2024 (Thursday)	02.00 to 05.00 P.M.	A Course in Conversation Skills R20ENG301	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills 820ENG301 R20ENG301A	A Course in Conversation Stalls RZOENG303 RZOENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course In Conversation Skills R20ENG301	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course in Conversation Skills R20ENG301 R20ENG301A	A Course for Conversation Skills R20ENG301 R20ENG301A
18.10.2024 (Friday)	02.00 to 05.00 P.M.	General Telugu/ General Hindi R20TEL MIL/REUHM301	General Telugu/ General Bindi R20781.201/R20010301 B20781.201/R20010301A	General Telogu/ General Hindi gantajati/ktoniktos gattajaga/gantajaik	General Telegu/ General Hindi Resttlan/Azemnasi: Resttlan/Azemsasi.	General Telegu/ General Hindi R20TEL301/920HIR301 R20TEL301/920(IR301A	General Telogu/ General Bindi 8201ELS01/RZGHIN301 B201ES301A/RZGHIN301A	General Telugu/ General Hindi 82018301/820HH361 920183014/88HH88014	General Teluga/ General Hipdi 820781301/829HNS61	****	General Telogu/ General Hindi RECTEL391/RECHM301 HERTELSTA/RECHM301A	General Telugu/ General Hindi R27/21301/R30HN301 R20151 bits/R20HN3014	General Telugu/ General Hindi Rzorel-zorazonakkoń gożrel-zorazennikkola	General Telugu/ General Hindi R2018L3D1/k26fiN301 R2018L3D1A/R22HM301A	General Telagu/ General Hindi REGTELSON/REGISTELS REGTELSON/REGISTELS	General Telugu/ General Bindi R20TEL381/R20HiN301 R20TEL381/R20HIN301A
19.10.2024 (Saturday)	02.00 to 05.00 P.M.	Abstract ålgebra R205/AT301	Abstract Algebra RZOMAT303 RZOMAT301A	Abstract Algebra R20MAT361 R20MAT361A	Abstract Algebra B20MAT301 R20MAT301A	Abstract Algebra R20MAT301 R20MAT301A	Anatomy and Embryology of Anglosperms, Plant Ecology and Biodiversity R20BOT301 R20BOT301A	Date Mining and Bota Analytics R20DSDD301 R20DSDD301A	Descriptive Statistics R2010TSTATS01	Algebraic Solutions and Numerical Analysis 620W5MAT301 R20W5MAT301A	Advanced Accounting R2DCOMB01 R2DCOM301A	&dvanced Accounting R2UCOM301 R2UCOM301A	Advanced Accounting R20COM301 R20COM301A	Advanced Accounting R20COM301 R20COM301A	Organisation Behaviour R20BBA301 R20BBA301A	Accounting and Financial Management R20BCA301 R20BCA301A
21.10.2024 (Monday)	02.00 to 05.00 P.M.	Heart and Thermodynamics R20PHY301	Heat and Thermodynamics R20PHY301 R20PHY301A	Statistical Inference R20STAT301 R20STAT301A	Analog Circuits and Communication R20ELE301 R20ELE301A	32534	Geld Biology, Genetics, Molecular Biology and Evolution R29200301 R29200301A	Statistical Inference R200SSTAT301 R20DSSTAT301A	Digital Electropics R20f0TEL8501	E-Changers R20WSEC302 R20WSEC302A	Rusiness Statistics R29COM302 R29COM302A	Business Statistics R20COM302 R20COM302A	Business Statistics R20COM303 820COM3028	Business Statistics R20COM302 R20COM302A	Human Resource Management R208BA302 R208BA302A	Object Oriented Programming through Java R20BCA302 R20BCA302A
22.10.2024 (Tuesday)	02.00 to .05.00 P.M.	.c++00	Data Base Management Systems R20GSG301 R20GSG301A	Data Base Management Systems R20050301 R20050301A	Data Base Management Systems R20CSC301 R20CSC301A	Data Sase Management Systems R20CSC301 R20CSC301A	****	OOPS with Java R20050J301 R20050J301A	OOPS with Pythen R2010TOP301	Programming in Java R20WSPJ301 R20WSPJ301A	Marketing R20COMG303 R20COMG303A	Endian Bunking System R20COMT303 R20COMT303A	Programming with C & C++ R20COMC303 R20COMC303A	Material Management R20COML303 R20COML303A	Finauchi Management R20BRA303 R20BBA303A	Operating Systems R208CA303 R208CA303A
23.10.2024 (Wednesday)	02.00 to 05.00 P.M.	Organic Chemistry and Spectroscopy R20CHE301	ertri	*****	*****	Organic Chemistry and Spectroscopy RZOCHE301 RZQGNE301A	Organic Chemistry and Spectroscopy R20CHE301 R20CHE301A	VO ME	****	Advanced Angular IS R20WSAA[303 R20WSAA[303A	*109.6	7=011	*****	*****	N4417	*****

Controller of Examinations

Room No: _ Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 Class : II Degree (All Groups) : English Pass Mark: 24 Subject Title of Paper: A Course in Conversational Skills Duration: 3 Hrs Paper Code : R20ENG301A Time :2pm-5pm W.E.F : 2023-24 Date : 17-10-2024 SECTION-A I. Answer any FIVE of the following Questions: 5X4=20M 1. What was the pledge that Jawaharlal Nehru wanted every citizen of India to take? 2. How do you greet people in formal, informal and semi formal ways? 3. What are the six Leadership traits that kalam talks about? 4. Give step by step Instructions on how to prepare two cups of tea? 5. How do we ask for information? Mention any three contexts. **6.** How does Steve Jobs inspire the students of Stanford University through his speech? 7. Give a clear description on the process of creating a Gmail account. 8. Develop a dialogue between two friends on the choice of their career. SECTION-B II. Answer the following Questions: 5X8=40M 9. What according to author freedom and power brings in "Tryst with Destiny" 10. Introduce a chief guest, a famous personality, on your college Day celebrations of your college. (Mention his/her education, awards won, positions held, future aspirations) 11. What are Obama's views on the future of American's? 12. Define requests. Mention any three contexts of requests with example (making requests, agreeing requests, declining requests). 13. What is Nelson Mandala's view on anger and revenge? (OR) 14. Develop a conversation between two friends on agreeing and disagreeing about their vacation plan. 15. What according to JRD Tata, are the factors that increase corruption? 16. Write a dialogue between a Mr. Shushi and a customer service representative complaining about the extra electricity bill. 17. What is Debate? Discuss the stages in Debate. 18. Write about the importance of Role Play? How can you make a role play activity more effective?

Subject: English Pass Title of Paper: A course in Conversational skills Dura Paper Code: R20ENG301 Pape W.E.F: 2021-22 Date SECTION - A Answer any FIVE Of the following questions: What is the central theme of the lesson Tryst with Destiny? Describe the significance of Greetings.	Marks Mark ation er Time	: 75 : 30 : 3 Hrs
Class : II Degree (ALL GROUPS) Max Subject : English Pass Title of Paper : A course in Conversational skills Dura Paper Code : R20ENG301 Paper W.E.F : 2021-22 Date SECTION - A Answer any FIVE Of the following questions: . What is the central theme of the lesson Tryst with Destiny? Describe the significance of Greetings. Explain the response of Dr. APJ Abdul Kalam on "A leader should be a subject to the state of the contract of the contra	Marks Mark ation er Time	: 75 : 30 : 3 Hrs : 2pm - 5 pm : 17 - 10 - 2024
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SECTION - A Answer any FIVE Of the following questions: What is the central theme of the lesson Tryst with Destiny? Describe the significance of Greetings. Explain the response of Dr. APJ Abdul Kalam on "A leader show	AP.	
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Describe the significance of Greetings. Explain the response of Dr. APJ Abdul Kalam on "A leader shown."	uld know	
Explain the response of Dr. APJ Abdul Kalam on "A leader show	uld know	
	uld know	
a laning		how to Manage
How do we ask for information? Mention any three contexts?		
. How do you give directions to your friend to reach your College	from Ra	ilway Station?
. What is the tone of Steve Job's speech at Stanford University?		
. Give a clear description of your Village / Town in about 75 wor	ds.	
. What are the three favourite interviewing techniques?		
SECTION -B		
II. Answer ALL the following Questions:		5X10=50M
. What according to Pandit Nehru was the tryst with destiny tha	at Indian	s made?
(OR)		
0. How do you introduce your team members to the Chief Guest	?	
1. Give an analysis of the leadership style of President Obama.		
(OR)		
2. How do we make request? Mention any five different contexts	S	
3. What does Nehru mean by his remark that freedom and power	er brings	responsibility?
(OR) 4. What is the pleasure in agreeing for a deal?		
5. What questions would you ask Ratan Tata?		
(OR)		
6. Build dialogue between a Ticket Collector and a Passenger in	the train	
7. Describe the basic debate skills.		
(OR)		
8. Explain different methods of Role Play.		

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II Degree (All Groups) Class Max Marks: 60 Subject : Telugu Pass Mark: 24 Title of Paper: General Telugu Duration : 3 Hrs Paper Code : R20TEL301A Time : 2pm - 5pm W.E.F : 2023-24 Date 18/10/2024

విభాగము - అ

1. ఈ క్రింది వానిలో ఏవైనా ఐదింటికి సంక్షిప్త సమాధానాలు బ్రాయండి?

5×4=20 మా

1. భాష ప్రయోజనం

2. వాక్య భేదాలు

3. రేడియో రచన

4. వార్త నిర్వచనం

5. వ్యాసం

7. మాధ్యమము నిర్వచించండి

8. We all know that the language is different in so far as literature is concerned and the day to day speech is concerned. Even in the colloquial speech, there are differ ences in different regions. The speech of ever districts vary.

విభాగము - ఆ

2. ఈ క్రింది వానిలో ఏవైనా ఐదింటికి సంక్షిష్త సమాధానాలు బ్రాయండి?

5×8=40 మా

భాషా నిర్మాణంలో వర్ణ – పదం – వాక్యముల ప్రాధాన్యతను వివరించండి?

10 - భాషను నిర్వచించి, భాషా లక్షణాలను తెలుపండి?

া৷ ఉత్తమ కవితా లక్షణాలను వివరించండి?

(ව්ದಾ)

😡 . వ్యాసమును నిర్వచించి, వ్యాస లక్షణాలు తెలియజేయండి?

13. అనువాదమును నిర్వచించి, అనువాద సమస్యలను తెలుపండి?

14. అనువాద పద్ధతులను గురించి వివరంగా తెలుపండి?

(5. వివిధరకాల పట్రికలను గూర్చి బ్రాయండి? (లేదా)

16, ಪರ್ಡಿತ್ ರವನ ಗುರಿಂವಿ ತಾಲಿಯಾಪೆಯಂಡಿ?

নি, ప్రసార మాధ్యమాల విస్తృతి, ప్రయోజనాలను వివరించండి?

(లేదా) ﴿ రేడియోను పరిచయం చేసి, రేడియో రచనను గూర్చి తెలుపండి.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS III - SEMESTER END EXAMINATIONS Class : II Degree (All Groups) Max Marks: 75 Subject : Telugu Pass Mark: 30 Title of Paper: General Telugu Duration : 3 Hrs : 2pm - Spm Paper Code : R20TEL301 Time W.E.F : 2021-22 : 18/10/2024. Date విభాగము - అ I. ఈ క్రింది వానిలో ఏపైనా ఐదింటికి సంక్షిప్త సమాధానాలు వ్రాయుము 5X5=25మా 1. భాష ప్రయోజనాలు 2. ప్రతిభ విశిష్టతను తెలపండి 3. చారిత్రక వ్యాసాలు 4. అనువాదంలో భౌగోళిక సమస్యలు - పరిష్కార మార్గాలు 5. వార్తా రచనలోని పద్ధతులు తెలపండి 6. పత్రికలలోని భాష ఎలా ఉండాలి 7. యాంకరింగ్ లక్షణాలు 8. క్రింది అంశమును తెలుగులోకి అనువదించండి. Soft skills refer play a vital role in the success of an organization Soft Skills are so important as traditional hand Skills, At the same time hard Skills cannot be replaced with soft skills. Soft skills Cannot be taught. However they can be achieved through proper training. విభాగము - ఆ II. ఈ క్రింది వానిలో అన్ని ప్రశ్నలకు సమాధానములు వ్రాయుము 5X10=50 మా 9. భాషా నిర్మాణములో వర్లం - పదం - వాక్యాల ప్రాధాన్యతను వివరించండి (ಲೆದ್) 10. వాక్య భేదాలను సమగ్రంగా చర్చించండి. 11. ఉత్తమ కవిత్వ లక్షణాలను వ్రాయండి (ಲೆದ್) 12. ఉత్తమ వ్యాస లక్షణాలను వ్రాయండి 13. అనువాదాన్ని నీర్వచించి అనువాద పద్ధతులను వ్రాయండి. (ಲೆದ್) 14. ముద్రణా మాధ్యమం పరిధి వికాసాలను పేర్కొనండి 15. తెలుగు భాషలో పత్రికల వర్గీకరణ వ్రాయండి (ಲೆದ್) 16. వార్తను నీర్వచించి వార్త లక్షణాలను తెలపండి. 17. ప్రసారమాద్యమాల విస్తృతి, ప్రయోజనాలు తెలుపండి (ಲೆದ್) 18. యాంకరింగ్ నిర్వహణ తీరు తెన్సు లను వివరించండి

III - SEMESTER END EXAMINATIONS Max Marks: 60 : II Degree (All Groups) Class Pass Mark: 24 : Hindi Subject Duration : 3 Hrs Title of Paper: General Hindi : 2pm - 5pm Time Paper Code : R20HIN301A 18/10/2024 Date : 2023-24 W.E.F SECTION-A अ. निम्न लिखित प्रशनों में से किन्ही पांच का उत्तर दीजिए। 5 X 4 = 20 M 1. किसी एक कवि का जीवन परिचय दीजिए। 2. भवानी प्रसाद मिश्र 1. स्रदास 2. " तोड़ती पत्तर" कविता का सारांश लिखिए 3. भक्तिकाल की विशेषताऐं लिखिए। 4. ज्ञापना की परिभाषा दीजिए। 5. अनुवाद किसे करते है। 6. व्याख्या कीजिए पाहन पूजे हरी मिलै, तो मै पूजूँ पहाड़। ताते ये चाकी भली , पीस खाय संसार।। 7. व्याख्या कीजिए जी गीत जनम का लिखँ, मरण का लिखँ। जी, गीत जीत का लिखुँ, शरण का लिखुँ।। पर्यावरण और प्रदूषण पर निभांध लिखिए। **SECTION-B** 5 X 8 = 40 M 9. किसी एक कविता का सारांश विशेषताओं सहित लिखिए। (आ) गीत फरोश (अ) तोडती पत्थर 10. (अ) भक्तिकाल की विशेषताएँ प्रस्तुत कीजिए। अथवा (आ) ज्ञनाश्रई शाखा में कबीर का स्थान निर्धारित कीजिए।

(B) समाचारपत्र

(c) साहित्य और समाज

11. किसी एक निबंध पर प्रकाश डालिए।

(A) कम्प्यूटर

SECTION-B

12. हिन्दी में अनुवाद कीजिए।

- 1. Please turn off the light
- 2. Hurry up and wash your face
- 3. Where your pen
- 4. I have got a bit late today

(अथवा)

अंग्रेजी में अनुवाद कीजिए।

- 1. बच्चे रोज शतरंज खेलते हैं।
- 2. मेरे पहुंचने से पहले गाड़ी जा चुकी थी।
- 3. सुबह से बारिश हो रही है।
- 4. क्या बारिश हो रही है ?

13. किसी एक पर टिप्पणी लिखिए ।

- 1. परिपत्र
- 2. कार्यालय ज्ञापना
- 3. अधिसूचन

III - SEMESTER END EXAMINATIONS Max Marks: 75 : II Degree (All Groups) Class Pass Mark: 30 Subject : Hindi : 3 Hrs Title of Paper: General Hindi Duration 2pm - 5pm Paper Code : R20HIN301 Time 18/10/2024 Date : 2021-22 W.E.F Part-A (Short Answer Questions) निम्न लिखित प्रश्नों में से किन्हीं पाँच प्रश्नों का उत्तर दीजिए 25 Marks 1. व्याख्या कीजिए पाहन पूजे हरि मिलै तो मैं पूजूँ पहाड ताते ये चाकी भाली पीस खाय संसार 2. किसी एक कवि का साहित्यक परिचय दीजिए 2. मैथिली शरण गुप्त 3. मातृभूमि कवितां की विशेषताएँ लिखिए 4. व्याख्या कीजिए वह तोडती पत्थर इलहाबाद के पथ पर वह तोडती पत्थर नहीं छायादार पेड वहाँ 5. ज्ञानमार्ग शाखा की विशेषताएँ बताइए 6. प्रदूषण के निवारणोपाय लिखिए 7. अनुवाद किसे है 8. परिपत्र की परिभाषा दीजिए Part-B (Essay Questions) 9. किसी एक कविता का सारांश विशेषताओं सहित लिखिए 50 Marks 1) मातृभूमि 10 2) तोडती पत्थर 10. हिन्दी साहित्य का इतिहास -काल विभाजन के बरे में लिखिए 10 ज्ञानमार्ग शाखा में कबीर के स्थान को लिखिए 11. किसी एक निबंध पर प्रकाश डालिए 1. पर्यावरण और प्रदूषण 2. कंप्यूटर 10 3. बेकारी की समस्या

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

12. हिन्दी में अनुवाद कीजिए 1.India is our country 5X2=10 2. The rose is beautifult 3. Dipawali is the festival of lights 4. Where are you going 5. This is our college. (अथवा) अंग्रेजी में अनुवाद कीजिए 1. हिन्दी हमारी राष्ट्रभाषा हैं 2. हम काँलेज जाते हैं 3. मानव सेवा ही माधव सेवा है 4. कल रविवार था 5. सरला नाचती है 13. किसी एक पर टिप्पणि लिखिए 10 1. परिपत्र 2. प्रयोजनमूलक हिन्दी 3.राष्ट्र-भाषा हिन्दी

Regd No: Room No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS

: II B.Sc Honours (Mat)

Max Marks: 60

Class

Pass Mark: 24

: Mathematics Subject

Title of Paper: Mathematical Special Functions And

Duration : 3 Hrs Problem Solving Sessions

Paper Code : R23MAT304 W.E.F : 2024-25

: 2pm-5pm Time : 19.10.2024 Date

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

1.
$$\int_0^1 X^4 (1-X)^3 dx = \frac{1}{280}$$

- **2.** Prove that $\Gamma(\frac{1}{2}) = \sqrt{\pi}$.
- 3. State and prove that Rodrigues formula of Lp(x)
- **4.** Prove that $2xHn(x) = 2n H_{n-1}(x) + H_{n+1}(x)$.
- **5.** Prove that if m < n then $\frac{dm}{dx^m} (H_n(x)) = \frac{2^m n!}{(n-m)!} H_{n-m}(x)$.
- **6.** $|(2n+1).x.p_n(x)=(n+1)p_{n+1}(x)+n.p_{n-1}(x)|$
- 7. Show that $J_{1/2}(x) = \sqrt{\frac{2}{\pi x}} \sin x$.
- **8.** Show that $x J_{n}(x) = -n J_{n}(x) + x J_{n-1}(x)$.

SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Prove that
$$\beta(m, n) = \frac{\lceil m \rceil n}{\lceil (m+n) \rceil}$$
.

(OR)

10. Show that (i)
$$\int_{-1}^{1} \frac{T_m(x)T_n(x)}{\sqrt{1-x^2}} dx = \begin{cases} 0 & , & if \ m \neq n \\ \frac{\pi}{2} & , if \ m = n \neq 0 \\ \pi & , if \ m = n = 0 \end{cases}$$

(ii)
$$\int_{-1}^{1} \frac{U_m(x)U_n(x)}{\sqrt{1-x^2}} dx = \begin{cases} 0 & , & if \ m \neq n \\ \frac{\pi}{2} & , if \ m = n \neq 0 \\ 0 & , if \ m = n = 0 \end{cases}$$

11. State and Prove that Orthogonal properties of Lynn)

12. State and Prove that Generating function of Ly(x) Ln(x)

13. State and prove that Rodrigues formula for Hermite Polynomials.

(OR)

- 14. State and Prove that Generating function of Hermit Polynomials.
- **15.** Prove that $(1 2xh + h^2)^{-1/2} = \sum_{n=0}^{\infty} h^n P_n(x)$

(OR)

- 16. State and Prove Orthogonal properties of Legendre Polynomials for Pn(X)
- 17. Prove that $Y = a_0(1-\frac{x^2}{2^2} + \frac{x^4}{2^24^2} \frac{x^6}{2^24^26^2} + \dots)$ is a solution of Bessel's differential equation for n = 0
- **18.** Show that i) $J_{-n}(x) = (-1)^n J_n(x)$ where n is a positive integer and ii) $J_n(-x) = (-1)^n J_n(x)$ for positive or negative integers.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III SEMESTER END EXAMINATIONS :75 : II B.Sc. (MPC, MPCS, MECS, MSCS, MCCS) Max Marks Class Pass Mark : 30 : Maths Subject : 3 Hrs Duration Title of Paper: Abstract Algebra :2pm - 5pm Paper Code: R20MAT301 Paper Time :19.10.2024 : 2021-22 Date W.E.F SECTION - A 5X5 = 25MI. Answer any FIVE Of the following questions. 1. In a group G, for all $a \in G \ni a^2 = e$ then prove that (G, .) is an abelian group. 2. In a group G, prove that if $a \in G$ then $O(a) = O(a^{-1})$. 3. If H is any subgroup of a group G, then prove that HH= H. 4. Prove that every subgroup of an abelian group is normal. If a is a generator of a cyclic group G, then prove that a-1 is also a generator of G. Examine whether the permutation $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 4 & 5 & 6 & 7 & 1 \end{pmatrix}$ is even or odd. Prove that the intersection of two subrings of a ring R is a subring of R. Prove that a field has no proper ideals. SECTION -B

II. Answer ALL the following Questions.

5X10=50M

9. Prove that the set of all integers forms an abelian group under the operation * is defined by $a*b = a+b+2 \ \forall \ a,b \in Z$.

(OR)

- 10. Prove that a finite semi group G satisfying cancellation laws is a group.
- 11. Prove that the necessary and sufficient condition for a finite complex H of a group G is $a,b \in H \Rightarrow ab \in H$.

(OR)

- 12. State and prove Lagrange's theorem.
- 13. Prove that A subgroup H of a group G is a normal sub group of G iff each left coset of H in G is a right coset of H in G.

(OR)

- 14. State and prove fundamental theorem of homomorphisms of groups.
- 15. State and prove Cayley's theorem.

(OR)

- 16. Prove that every finite group of prime order is cyclic.
- 17. Prove that every finite integral domain is a field.

(OR)

18. If U_1 and U_2 are two ideals of a ring R then prove that $U_1 \cup U_2$ is an ideal of R iff either $U_1 \subseteq U_2$ or $U_2 \subseteq U_1$.

R	oom No: Regd No
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
	III - SEMESTER END EXAMINATIONS
	ass : II B.Sc (MPC,MPCS,MSCS,MCCS,MECS) Max Marks : 60
The second	bject: Mathematics Pass Mark: 24
200000	tle of Paper : Abstract Algebra Duration : 3Hrs
1	per Code : R20MAT301A Time : 2pm - 5 pm
W	E.F : 2022-23 Date : 19.10.2024
T	SECTION-A
	Answer any <u>FIVE</u> of the following Questions Prove that G is a group, for $a, b \in G, (ab)^{-1} = b^{-1}a^{-1}$.
	TO THE REPORT OF THE PROPERTY
2.	In a group G for every $a \in G$, $a^2 = e$. Prove that G is an abelian group.
٥.	If H_1 and H_2 are two subgroup of a group G, then prove that $H_1 \cap H_2$ is also subgroup of
1 8	a group G.
4.	Prove that every subgroup an abelian group is normal.
5.	Prove that the permutation $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 4 & 5 & 6 & 7 & 1 \end{pmatrix}$.
	Prove that every cyclic group is an abelian group.
	Prove that every Boolean ring is an Abelian.
0.	Prove that a field has no proper ideals.
II.	SECTION-B Answer ALL the following Questions 5X8=40M
9.	Show that the set Q^+ of all positive rational numbers is an abelian group with respect
	to the operation "o" defined by $aob = \frac{ab}{3} \forall a, b \in Q^+$.
	(OR)
10	Prove that a finite semi group (G,.) satisfying the cancellation laws is a group.
	If H and K are two subgroups of a group G, then Prove that HK is a subgroup of G iff
	HK = KH.
	(OR)
12	State and prove Lagrange's theorem.
13	Prove that a subgroup H of a group is a normal subgroup of G iff each left cosets of H
	in G is a right coset of H in G.
	(OR)
14	Prove that the necessary and sufficient condition for a large 1.1 c. c.
	Prove that the necessary and sufficient condition for a homomorphism f of a group G onto a group G ¹ with Kernel K to be an isomorphism of G into G ¹ is that K={e}.
15	State and prove Cayley's theorem.
	(OR)
16	If p is a prime number, then prove that every group of order p is a cycle group that is a
	group of prime order is cycle.
17 .	Prove that every finite integral domain is a field.
	(OR)
18	If U_1 and U_2 are two ideals of a ring R then prove that $U_1 \cup U_2$ is an ideal of R iff
	$U_1 \subseteq U_2$ or $U_2 \subseteq U_1$

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

Class

: II B.Sc Honours (Mathematics)

Max Marks: 60

Subject

: Mathematics

Pass Mark: 24

Title of Paper: Numerical Methods & Problem Solving Sessions Duration

: 3 Hrs

Paper Code : R23MAT302

Time

:2pm-5pm

W.E.F

: 2024-25

Date

:17-10-2024

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Explain different type of difference operators.
- **2.** Given $u_0 = 3$, $u_1 = 12$, $u_2 = 81$, $u_3 = 200$, $u_4 = 100$ and $u_5 = 8$. Find $\Delta^5 u_0$.
- 3. Find the third divided difference of the function $f(x) = x^3 + x + 2$ for the arguments 1,3,6,11.
- **4.** The value of x and y are given as below. Find the value of y when x = 10.

х	5	6	9	11
у	12	13	14	16

5. Using Gauss forward Interpolation formula, find f(25) given that f(20) = 14,

$$f(24) = 32, f(28) = 35, f(32) = 40.$$

- **6.** Find a real root of the equation $x^3 + x^2 1 = 0$, by iteration method.
- 7. Find a real root of the equation $x^2 3x + 2 = 0$, in the vicinity of x=0 by using Newton Raphson method.
- **8.** Find the least square line y = a+bx for the data.

x	-2	-1	0	1	2
у	1	2	3	3	4

SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Prove that (i)
$$\delta = E^{1/2} - E^{-1/2}$$

(iii)
$$E^{-1/2} = \mu - \frac{1}{2}\delta$$

(ii)
$$\mu = \frac{1}{2} (E^{1/2} - E^{-1/2})$$

(iv)
$$E^{1/2} = \mu + \frac{1}{2}\delta$$
.

(OR)

10. Find the missing terms of the following data.

X	1	2	3	4	5	6	7	8
у	1	8	5	64	5	216	343	512

with equal intervals.

(OR)

12. State and prove that Newton's divided difference formula.

13. Using Lagrange's Interpolation formula, find the value of y at x=301.

X	300	304	305	307
у	2.4771	2.4829	2.4843	2.4871

(OR)

14. State and prove Gauss forward formula for equal intervals.

15. Find a real root of the equation $x^3 - x - 11 = 0$, by Bisection method.

(OR

16. Find a real root of the equation $f(x) = x^3 - 2x - 5 = 0$, by Regula – Falsi method

17. Fit a second degree parabola to the following data.

x	0	1	2	3	4
y	1	5	10	22	38

(OR)

18. Fit a curve $y = ax^b$ by the method of least curves using the following data.

X	61	26	7	2.6
У	350	400	500	600

vega uo: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Hon(Mat & Comp Science) Max Marks : 60 Subject : Mathematics Pass Mark : 24 Title of Paper: Group Theory And Problem Solving Sessions Duration : 3 Hrs Paper Code : R23MAT301/R23MMAT301 Time :2pm-Spm W.E.F : 2024-25 Date :16-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Show that the cube roots of unity form an abelian group under multiplication. **2.** In a group G, for all $a \in G$ then prove that $O(a) = O(a^{-1})$ **3.** If H is any subgroup of a group G then prove that $H^{-1} = H$. 4. Prove that any two left (Right) cosets of a subgroup are either disjoint or identical. 5. Prove that the intersection of two normal subgroups of a group is a normal subgroup. 6. Prove that every homomorphic image of an abelian group is abelian. 7. If $f = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 5 & 3 & 2 & 4 & 1 \end{pmatrix}$, $g = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 4 & 3 & 1 & 2 & 5 \end{pmatrix}$ then find fg and gf. 8. If 'a' is a generator of a cyclic group G then prove that a-1 is also a generator of G. SECTION-B II. Answer ALL the following Questions 5X8=40M **9.** In a group G, for $a,b,x,y \in G$ then prove that the equations ax=b and ya=b have a unique solutions in G. (OR) 10. Prove that the set of all integers forms an abelian group under the operation * defined by $a*b=a+b+2 \ \forall a,b \in Q$ 11. State and prove Lagrange's theorem. (OR) 12. If H and K are two subgroups of a group Gthen prove that Hk is a subgroup of G iff HK=KH. 13. Prove that A subgroup H of a group G is a normal subgroup of G iff each left coset of H in G is a right coset of H. (OR) 14. If G is a group and H is a subgroup of index 2 in G then prove that H is a normal subgroup of G. 15. State and prove Fundamental theorem on Homomorphism of groups. 16. Prove that the set of all automorphism of a group G forms a group with respect to compositions of mappings. 17. Prove that a group of prime order is cyclic (OR) 18. State and prove Cayley's theorem.

Room No: Regd No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS

Class : II Degree (All Groups)

Max Marks: 50

Subject : Mathematics Pass Mark: 20

Paper Code : R20LSC301

Title of Paper: Analytical Skills

Duration : 2 Hrs Time : 2 pm - 4 pm

W.E.F : 2022-23 Date : 15.10.2024

SECTION-A

I. Answer any TEN of the following Questions

10X2 = 20M

1. Find the odd one out of the series -3,5,7,12,17,19.

2. Simplify: 108/36 of ½+ 2/5 X 3(1/4).

3. If a:b = 5:9 and b:c = 4:7 find a:b:c?

4. Express 56% and 4% as a fraction.

5. Find the missing number is the series.

4,18, ___,100,180,294

6. Find the wrong number in the series 3, 10, 27, 4, 16, 64, 5, 25, 105

7. if $\frac{2x}{1+\frac{1}{1+\frac{x}{1+\frac{x}{1+x}}}} = 1$, then find the value of x.

8. If x:y = 3:4, find (4x+5y):(5x-2y).

9. 986 X 307 – 986 X 207 = ?

10. Find the LCM of 28,35,56 and 84?

11. 1425+8560+(1680/200) = ?

- 12. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev.
- 13. Find the day of week august 15th 1947?
- 14. A cyclist covers a distance of 750m in 2min 30 sec. what is the speed in km/hr of the cyclist.
- **15.** Find the simple interest on Rs. 4000/- for 4 years of 5% per number?

SECTION-B

II. Answer any <u>FIVE</u> of the following Questions

5X6=30M

16. Subject (maximum marks recorded out of 100)

Students	Hindi	English	Maths	Social	Science	Sanskrit	PES
Anupama	85	95	87	87	65	35	71
Bhaskar	72	97	55	77	62	41	64
Charu	64	78	74	63	55	25	33
Deepak	65	62	69	81	70	40	50
Garima	92	82	81	79	49	30	61
Vishal	55	70	65	69	44	28	30

- a. How many students have scored lowest marks in two or more subjects?
- b. Who has scored the higher marks in all the subjects together
- c. What is the Deepak percentage of marks in all the subjects together
- d. What is the average percentage of marks obtained by all the students together in science?
- e. Marks obtained by Charu in Hindi is what percent marks the Anupama got in science * subject?
- 17. How many numbers between 11 and 90 are divisible by "7"?
- 18. What was the day of week on 16th April, 2000?
- 19. At what time between 2 and 3'0 clock will be hands of clock be together?
- **20.** The average age of a class of 39 students is 15 years. if the age of the teacher be included, then the average increases by 3 months. Find the age of the teacher?
- 21. 6 years ago, the ratio of the ages of Kumar & Sagar was 6:5. Four year hence, the ratio of their ages will be 11:10. What is Sagar's age at present.
- 22. In how many years, Rs. 150 will produce the same interest 8% as Rs. 800 produce in 3 yrs 4 ½ %?
- 23. A, B and C started a business by investing Rs. 120000, Rs. 135000 and Rs. 150000 respectively. Find the share of each. Out of an annual profit of Rs. 56700.
- 24. A book was sold for Rs. 27.50 with a profit of 10% if it was sold for Rs. 25.75, then what would have been the percentage of profit or loss?
- 25. Explain BODMAS Rule?

Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Voc (WT & SD) Max Marks : 60 Subject : Mathematics Pass Mark : 24 Title of Paper: Algebraic Solutions And Numerical Analysis Duration : 3 Hrs :02:00PM-05:00PM Paper Code : R20WSMAT301A Time W.E.F : 19/10/2024 : 2023-24 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Find the series of 2+8+14+20+......then find 10th term and sum of 10 terms. 2. Find the 5th term of the series 4+12+36+..... 3. Evaluate $Lt \frac{x^3 - 6x^2 + 9x}{x^2 - 9}$ 4. Find $\lim_{x \to 1} \frac{\sin(x-1)}{x^2-1}$ **5.** Prove that *i*). $\triangle - \nabla = \triangle \nabla^{ii}$). $\triangle + \nabla = \frac{\triangle}{\nabla} - \frac{\nabla^{i}}{A}$ **6.** Construct a Backward difference table and find $\nabla^{-2}u_4$ U_I 2 5 10 20 7. Find the number of ways of arranging 3 Mathematics, 2 Physics and 1 Chemistry in a shelf, such that the books of same kind are together. $25_{c_4} + \sum_{0}^{7} (29 - r)_{c_3} = 30_{c_4}$ 8. Prove that SECTION-B II. Answer any of the following Questions 5X8=40M 9. If the 1st term of AP is 4 and 10th term of AP is 31. Find the sum of first 10 terms. (OR) 10. The 6th term of GP is 1215 and 3rd term is 45. Find the sum of first 6 terms. 11. Evaluate $Lt_{x\to 0} \frac{\int_{0}^{3} \sqrt{1+x} - \sqrt[3]{1-x}}{x}$ (OR) 12. Evaluate $\lim_{x\to 0} \frac{Lt}{\sqrt{1+x}-1}$ [P.T.O]

13. State and prove Newton-Gregory formula for backward interpolation with equal intervals.

(OR)

14. Estimate the population for the year 1925.

Year-x	1891	1901	1911	1921	1931
Population(y) Thousands	46	66	81	93	101

15. Apply Bessel's formula to obtain y_{25} , given $y_{20}=2854$, $y_{24}=3162$, $y_{28}=3544$, $y_{32}=3992$.

(OR)

- 16. Use Stirling formula to evaluate f(25) from the data:
- 17. Find the number of ways of arranging 6 boys and 6 girls. In how many of them.
 - i) All the girls are together.
- ii) No two girls are together
- iii) Boys and girls come together.

(OR)

18. Find the rank of the word VICTORY by arranging the letters of the words in a dictionary order.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (Mathematics) Max Marks: 60 Subject : Mathematics Pass Mark: 24 Title of Paper: Laplace Transforms & Problem Solving Session Duration Time : 2pm - 5pm
Date : 18/10/2024 Paper Code : R23MAT303 Time W.E.F : 2024-25 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Find $L\{(5e^{2t}-3)^2\}$ 2. Find L{sinh²3t} Find the Laplace transform of L{G(t)}, where G(t) = $\begin{cases} e^{(t-a)}, & t > a \\ 0, & t < a \end{cases}$ **4.** Find $L\{e^{-t}(3 \sin 2t - 5 \cos h 2t)\}$ 5. Find $L\left\{\frac{1-e^t}{t}\right\}$ **6.** Evaluate $\int_0^\infty \frac{\sin t}{t} dt$ 7. Find $L^{-1}\left\{\frac{3p-8}{4p^2+25}\right\}$ **8.** Find the inverse Laplace transform of $\log \left\{ \frac{p+3}{p+2} \right\}$ SECTION-B II. Answer ALL the following Questions 5X8=40M **9.** Find L{cos³ 3t} (OR) **10.** Find the Laplace transform of the function $F(t) = \begin{cases} \sin t, & 0 < t < \pi \\ 0, & t > \pi \end{cases}$ 11. State and prove Second shifting theorem. (OR) **12.** Find if $L\{F(t)\} = \frac{9p^2-12p+15}{(p-1)^3}$, find $L\{F(3t)\}$ and $L\{F(2t)\}$ by change of scale property. 13. Evaluate L{t sin 3t cos 2t} (OR) 14. Find $L\left\{\frac{\cos t - \cos 2t}{t}\right\}$

[P.T.O]

15. Evaluate $L^{-1}\left\{\frac{p+1}{p^2+6p+25}\right\}$

- (OR) **16.** Find $L^{-1}\left\{\frac{3p+1}{(p-1)(p^2+1)}\right\}$
- 17. Find L⁻¹ $\left\{ \frac{p+2}{(p^2+4p+5)^2} \right\}$

(OR) .

18. Apply Convolution theorem to find $L^{-1}\left\{\frac{p^2}{(p^2+4)^2}\right\}$

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) **III - SEMESTER END EXAMINATIONS** Max Marks: 75 Class : II B.Sc (MSCS, DS) : Statistics Pass Mark: 30 Subject Title of Paper: Statistical Inference Duration : 3 Hrs Paper Code : R20STAT301A/R20DSSTAT301A Time :2pm-Spm W.E.F : 2022-23 Date :21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Define the population, sample, parameter and statistic with their examples. **2.** Explain the Reproductive property of chi-square distribution. **3.** Explain the method of moments. **4.** Distinguish between point and interval estimation. 5. Define one-tailed and two-tailed test. 6. Explain procedure for testing hypothesis. 7. Explain the paired t-test for difference means. **8.** What are the assumptions on non-parametric test. SECTION-B II. Answer the following Questions 5X8=40M **9.** Define t-distribution and derive its mean and variance. (OR) 10. Show that a limiting case of Chi-square distribution. 11. State and Prove Crammer Rao inequality. (OR) 12. Explain the method of Maximum likelihood estimation and what are its properties. 13. State and prove Neymann - pearson's lemma. (OR) 14. Find the best critical region for testing H₀: $\lambda = 2$ against H₁: $\lambda = 3$ based on the sample drawn from a Poisson population. 15. Explain the test procedure of two proportions. (OR) 16. Explain the F- test for equality of population variance. 17. Explain the median test procedure. (OR) 18. Explain the sign test for two samples.

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Room No:	Regd No:
KAKARAPARTI BHAVANARAYANA	
III - SEMESTER END EX	AMINATIONS
lass : II BBA Honours (Business Analytics)	Max Marks: 60
ubject : Statistics	Pass Mark: 24
itle of Paper : Fundamentals of Business Analytics	Duration : 3 Hrs
aper Code : R23BBASTAT301	Time : 2pm - 5pm
/E.F : 2024-25	Date : 18/10/2021/
	10/10/20-7
SECTI	
Answer any FIVE of the following Questions	5X12=60M
. Define Business Analytics and distinguish betwee	n business analytics and business
intelligence.	
(OI	R)
. Explain different types of data (structured, unstru	actured) are commonly analyzed?
	2
Define descriptive analytics & write its importance	e.
(O)	P)
(0)	2)
What visualization techniques are used to presen	t data insights?
what visualization techniques are used to present	t data moignes.
4	
How do correlation and regression analysis help i	n understanding relationships between
variables?	
(O)	R) -
5. Explain cluster Analysis.	

Define prescriptive analysis and write its applicat	nons.
10	70
(O	R)
The state data incideta into actionable	husiness strategies?
8. How do we translate data insights into actionable	business strategies:
	and the second second
9. Discuss customer analytics for a new product de	velopment.
9. Discuss customer analytics for a new product de	voio pinonia.
(0	R)
10. Explain key performance indicators (KPI) for me	easuring sales performance?
	a ·
8	
	*3

Regd No:	Room N	o:				
KAKARAPARTI BHAVANARAYANA COLLE	GE (AUTONOMOU	(S)				
III SEMESTER END EXAMINA	ATIONS					
Class : II B.Sc. (MSCS, DS) Subject : Statistics Title of Paper: Statistical Inference Paper Code : R20STAT301/R20DSSTAT301 W.E.F : 2021-22	Max Marks Pass Mark Duration Paper Time Date	: 75 : 30 : 3 Hrs : 2pm - 5pm : 21-10-24				
SECTION - A						
I. Answer any FIVE Of the following questions.		5X5=25M				
1. Derive the relation between t and F distributions.		31.00				
2. Explain about method of moments.						
3. State and prove invariance property of consistency.						
4. Explain critical region and most powerful test.						
5. Explain types of errors and degrees of freedom.						
6. Explain the test procedure for single proportion.						
7. Explain the Man-Whitney U test.						
8. Distinguish between parametric and non parametric te	est.	Table 1				
SECTION -B						
II. Answer ALL the following Questions		5X10=50M				
9. (a) Derive the relation between x ² and F distributions.						
(OR)						
(b) Define t- distribution and derive its mean and varia	nce.					
10.(a) State and prove Cramer- Rao's inequality. (OR)	• •					
(b) Obtain MLE for a) μ when σ^2 is known b) σ^2 when μ with mean μ and variance σ^2 .	is known in Norma	al distribution				
11.(a) State and prove Neymann Pearson lemma. (OR)						
(b) Obtain best critical region for testing H0: P=P ₀ Vs H ₁ :P=P ₁ in a binomial distribution.						
12.(a) Explain the large sample test for testing the significance of the difference between the sample means.						
(OR)						
(b) Explain the F test for equality of variance.						
13. (a) Explain the median test procedure for two samples (OR)						
(b) Explain the Sign test for two samples.						

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.Sc Honours (Stat) Class Pass Mark: 24 : Statistics Subject Duration : 3 Hrs Title of Paper: Inferential Statistics : 2pm - 5pm Time Paper Code : R23STAT304 : 19-10-2024 Date : 2024-25 W.E.F SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Statement of Neyman's Factorization theorem. 2. Explain the method of moments. 3. Define critical region. 4. Define one tailed test and two tailed test. 5. Test of significance for single mean. 6. Explain the F-test for equality of variances. 7. Define parametric and Non-parametric test. 8. Write the sign test for single sample. SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Explain Criteria of a good estimator.

(OR)

- 10. Explain the method of maximum likelihood estimation and what its properties are.
- 11. State and Prove Neyman-Pearson Lemma.

. (OR)

- 12. For the binomial distribution with parameters n, p. Find the MP test of level for H₀: P=P₀ against $H_1: P=P_1(\neq P_0)$.
- 13. Explain the test of significance for difference of proportion.

- 14. Explain the test of significance for difference of means.
- 15. Explain the chi-square test for independence of attributes.

16. The time taken by workers in performing a job by method- I and method-II are given below

Method-I	20	16	26	27	23	22	
Method-II	27	33	42	35	32	34	38

Do the data show that the variances of time distribution from population from which these samples are drawn do not differ significantly?

17. Explain the sign test for two samples.

(OR)

18. Explain median test.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks : 60 : II B.Sc Honours(Statistics) Class Pass Mark : 24 Subject : Statistics Duration : 3 Hrs Title of Paper: Statistical Methods : 2pm - 5pm Time Paper Code : R23STAT303 18/10/2024 Date W.E.F : 2024-25 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Explain the principle of least squares. 2. Explain Scatter Diagram. 3. Define and explain bivariate frequency distribution. 4. Define Partial Correlation Coefficient and state its properties. 5. Define Probable error and also mention its properties. 6. Define Linear and Non - Linear Regression. 7. Define Class, ultimate class frequencies, order of class frequencies. 8. Define Mean square contingency coefficient. SECTION-B 5X8=40M II. Answer ALL the following Questions 9. Fitting of a power curve by using least square principle. (OR) 10. Fit a second degree parabola of the form $y = a + bx + cx^2$ to the following data 2 3 .4 1 0 X 2.5 1.3 6.3 1.0 1.8 У Spearman's Rank Correlation Coefficient. 11. Derive the 12. Calculate Karl Pearson's Correlation Coefficient between X and Y for the following data 5 8 10 1 3 16 20 8 10 14 6 13. If $r_{12} = 0.7$, $r_{13} = 0.72$ and $r_{23} = 0.52$ then determine the partial correlation coefficient of r_{12.3} and r_{23.1}. (OR) 14. Explain the concepts of Multiple and Partial correlation coefficients. 15. Derive the angle between two Regression lines. (OR) 16. Obtain the two regression lines from the following data 10 2 X 6 8 9 11 5 17. For 'n' attributes A_1 , A_2 ,..., A_n , show that the class frequency $(A_1 \bullet A_2 \bullet ... \bullet A_n) \ge (A_1) + A_1$ $(A_2) + \dots + (A_n) - (n-1)$ N. Where N is the total number of observations (OR) 18. Find the remaining class frequencies, given the following data

N = 23,713, (A) = 1,618, (B) = 2,015, (C) = 770, (AB) = 587, (AC) = 428, (BC) = 335,

(ABC) = 156.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.Sc Honours(Statistics) Class Max Marks : 60 Subject : Statistics Pass Mark : 24 Title of Paper: Theoretical Discrete Distributions Duration : 3 Hrs :2pm-5pm Paper Code : R23STAT301 Time

SECTION-A

Date

I. Answer any FIVE of the following Questions

5X4=20M

:16.10.2024

1. Define and explain Uniform Distribution.

: 2024-25

- 2. Derive Mean and Variance of Bernoulli distribution.
- 3. Define Poisson Distribution and mention its properties.
- **4.** Derive the additive property of Poisson Distribution.
- 5. Define Negative Binomial Distribution.
- 6. Define Geometric Distribution.

W.E.F

- 7. Write the properties of Geometric Distribution.
- 8. Define and explain Hyper Geometric Distribution.

SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Define Binomial Distribution and derive its M.G.F, Mean and Variance.

(OR)

- 10. The probability that a student is not swimmer is 1/5. Out of 5 students, find the probability that (i) 4 are swimmers (ii) at least 4 are swimmers.
- 11. Show that Poisson Distribution as a limiting case of Binomial Distribution.

(OR)

- 12. A company knows on the basis of past experience that 2% of its blades are defective, find the probability of having 3 defective blades in a sample of 100 blades.
- 13. Derive the Mean and Variance of Negative Binomial Distribution.

(OR)

- 14. Show that Negative Binomial Distribution tends to Normal Distribution.
- 15. Derive the M.G.F. of Geometric distribution and hence find its mean and variance.

(OR)

- 16. State and prove memory less property of Geometric Distribution.
- 17. Show that Hyper Geometric Distribution tends to Binomial Distribution.

(OR)

18. Derive the mean and variance of Hyper Geometric Distribution.

Regd No Room No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

: II B.Sc Hon (Data Science) Class

Max Marks

: 60

Subject

: Statistics

Pass Mark

: 24

Title of Paper: INFERENTIAL STATISTICS

Duration

: 3Hrs

Paper Code

: R23DSSTAT301

Time

: 2pm -5pm

W.E.F

: 2024-25

Date

SECTION-A

I. Answer any <u>FIVE</u> of the following questions

5X4=20M

- 1. Explain the method of moments.
- 2. Define Population, Parameter and Statistic.
- 3. Define Null and Alternative hypothesis.
- 4. Define one -tailed and two tailed tests.
- 5. Explain the test procedure for Single Mean.
- 6. Explain paired t test for difference of means.
- 7. What is the difference between Parametric and Non Parametric tests.
- 8. Explain the Runs test for Single Sample.

SECTION-B

II. Answer ALL of the following questions

5X8=40M

9. Explain the criteria of a good estimator.

(OR)

- 10. If X is a poisson variate with parameter λ . Find the maximum likelihood estimate of λ on the basis of a size n.
- 11. State and prove Neyman Pearson's Lemma.

(OR)

- 12. Let p be the probability that a coin will fall head in a single toss in order to test $H_0: p = \frac{1}{2}$ against $H_0: p = \frac{3}{4}$. The coin is tossed 5 times and H_0 is rejected if more than 3 heads are obtained. Find the probability of type I and type II errors.
- 13. Explain the large sample for testing the significance of difference of means.

(OR)

14. In a sample of 1,000 people in Uttar Pradesh, 540 are rice eaters and rest are wheat eaters. Can we assume that both rice and wheat are equally popular in this state at 5% level of significance.

29

15. Explain F - test for equality of two population variances.

(OR)

16. The following figures shows the distribution of digits in numbers chosen at random from a telephone directory.

Digita	0	1	2	3	4	5	6	7	8	9
Digita	U		 		4055	000	1107	070	064	953
requency	1026	1107	997	966	1075	933	1107	9/2	964	000

Test whether the digits may be taken to occur equally frequently in the directory.

17. Explain the Median test for two samples.

(OR)

18. Use one sample sign test to test the hypothesis that the median value μ of a continuous distribution is 15 i.e., H_0 : μ = 15 against an alternative hypothesis that H_1 : μ > 15 at α = 0.05 level of significance. Twenty observations were taken and the following results were obtained. 17,18,16,16,17,19,14,13,19,21,22,11,9,12,14,17,23,18,17,16

- 4

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (Stat) Max Marks: 60 Subject : Statistics Pass Mark: 24 Title of Paper: Theoretical Continuous Distributions Duration: 3 Hrs : 2pm-5pm Paper Code : R23STAT302 Time W.E.F :17-10-2024 : 2024-25 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Derive Mean Deviation about Mean of Rectangular Distribution. 2. Obtain Mean and Variance of Exponential Distribution. **3.** State and prove additive property of Gamma Distribution. 4. Obtain Harmonic mean for Beta Distribution for first kind. **5.** Write importance of Normal distribution. **6.** Explain points of inflexion of probability curve. 7. Obtain M.G.F of Standard Normal Distribution. **8.** Write properties of Chi-Square Distribution. SECTION-B II. Answer any FIVE of the following Questions 5X8=40M 9. Define Rectangular Distribution. Obtain Moments of Rectangular Distribution. **10.** If X is uniformly distributed with mean 1 and variance $\frac{4}{3}$. Find (i) P(X < 0) (ii) P(2 < X < 5). 11. State and prove lack of memory property of Exponential Distribution. (OR) 12. Define Exponential Distribution. Derive M.G.F of Exponential Distribution and find its mean and variance. **13.** Show that Gamma distribution tends to normal distribution as $\lambda \to \infty$. (OR) 14. Define Beta Distribution of second kind and Obtain its mean and variance. 15. Define Normal Distribution. Write chief characteristics of Normal Distribution. (OR) **16.** Show that Mean=Median=Mode in the Normal Distribution. 17. If X is normally distributed with Mean 8 and S.D. 4 Find (i) $P(5 \le X \le 10)$ (ii) $P(X \le 5)$. (OR) **18.** Define F- Distribution. Write its applications and properties.

Room No: Regd No KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Hon(DS) Max Marks : 60 Subject : Statistics Pass Mark : 40 Title of Paper: Distribution Theory Duration : 3Hrs Paper Code : R23DSMSTAT302 Time : 2pm - 5pm WEF +:2024-25Date : 19.10.2024 SECTION-A I. Answer any FIVE questions 5X4 = 20M1. Define and explain Discrete Uniform distribution. 2. Define and explain Bernoulli distribution. 3. State and prove Additive property of Poisson Distribution. **4.** What are the applications of Poisson distribution. 5. Define Gamma Distribution and write its properties. 6. Derive the Skewness of Exponential Distribution. 7. Explain the importance of Normal Distribution. **8.** Define F – distribution and mention its properties SECTION-B II. Answer ALL questions 5X8=40M 9. Define Binomial Distribution and derive its M.G.F, Mean and Variance. (OR) 10. The probability that a bomb dropped from a plane strikes the target is 1/5. Find the probability that out of 6 bombs dropped atleast 2 bombs strike the target. 11. Define Poisson Distribution and derive its Mean and Variance. (OR) 12. If the probability that an individual suffers a bad reaction from injection of a given serum is 0.001. determine the probability that out of 2000 individuals (i) exactly 3 (ii) more than 2 individuals suffer a bad reaction. 13. Obtain M.G.F. of Gamma Distribution. (OR) 14. Sate and prove memory less property of Exponential Distribution. 15. Define Normal Distribution and explain its some important properties. (OR) 16. If X is normally distributed and the mean of X is 12 and S.D. is 4. Find (i) P(X > 20) (ii) $P(X \le 20)$ (iii) $P(0 \le X \le 12)$ 17. Define Chi - Square distribution and write its properties and applications. (OR) 18. Define t - distribution and explain its properties and also applications.

Room No:	S P Regd	No:
KAKARAPARTI BHAVANARA	YANA COLLEGE (AUTO	NOMOUS)
Class : II B.Sc Honours (AI) Subject : Statistics Title of Paper : Inferential Statistics Paper Code : R23AISTAT301 W.E.F : 2024-25	MAX Marks Max Marks Pass Mark Duration Time Date	: 24
<u>s</u>	SECTION-A	
I. Answer any <u>FIVE</u> of the following Quest	ions	5X4=20M
1. Explain the method of Moments.		
2. Define Population and Sample.		
3. Explain the procedure for testing of hypot	hesis.	
4. Define and explain power of a test.		
5. Explain the paired t - test for difference of	means.	
6. Explain the Chi - Square test for goodness	s of fit.	
7. Explain ANOVA One way classification.		
8. What are the advantages of Non – Parame	fric Tests?	
<u>s</u>	ECTION-B	
II. Answer <u>ALL</u> the following Questions		5X8=40M
9. Explain the criteria of a good estimator.		
 Define and explain the Maximum likelihood. Explain the following terms. i) Statistical hypothesis 	(OR) od estimation method. ii) Critical region	
iii) Two types of errors	iv) One tailed and tw	vo tailed tests
	(OR)	
2 . In Andhra University, it was found that th		udents was 3 ¹¹ When a
ample of 100 was drawn from it, the sample		
nformation, can you decide that the average		
3. Explain the t – test for equality of two pop		or and the second of the secon
	(OR)	
	18	
		[P.T.O]

14. The following figures shows the distribution of digits in numbers chosen at random

		hoge y									AOIII .	
1	Digits	0	1	2	3	1		1 1 1 1 1 1 1				
Fr	equency r the digi	1026	1107	997	966	1075	000	6	7	8	9	1
nethe	r the digi	its may	be tak	en to	000127	10/5	933	1107	972	964	853	
ATOTT			oo can	CII (U	occur	equally	tr fram	11				į

Test whether the digits may be taken to occur equally frequently in the directory.

15. Explain ANOVA Two - Way classification.

16. It is known that the mean diameter of rivets produced by two firms A and B are partially the same. But the S.Ds. may differ. For 22 rivets from A, the S.D. is to be 2.9mm. while for 16 rivets from B, the S.D is 3.8mm. Can you say that the diameter of the rivets produced by A and B have the same variability? 17. Explain Runs Test for Randomness.

18. The table below gives the arithmetic addition scores for 27 individuals belonging to two groups. Use Median test to test the hypothesis of no difference between these two sets of score at 5% level of significance. Table: Scores on an addition test.

4 7 174 5 9	
· X	Y
12	7
16	12
18	14
7	18
6.	5
4	* 16
11	9
12	10
8	14
20	3
18	18
16	9
10	7
	4

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (Phy,Comp) Max Marks : 60 Subject : Physics Pass Mark : 24 Title of Paper: Optics Duration : 3 Hrs Paper Code: R23PHY301/R23MPHY301 Time : 2 pm - 5 pm W.E.F :-2024-25 Date. : 16-10-2024

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Derive formula for achromatism for two lenses in contact.
- 2. Derive the Cosine law.
- **3.** Distinguish between Fresnel and Fraunhofer diffraction.
- 4. Write a short note on Malus law.
- **5.** Write the differences between stimulated and spontaneous emissions.
- **6.** In a Newton's ring experiment, the diameter of the 5th ring was 0.3cm and the diameter of 5th was 0.8cm. If the wavelength of the light used is 4.87x10⁻⁵cm then find the radius of curvature of the plano-convex lens.
- 7. Find the radius of the first zone in a zone plate of focal length 20cm for a light of Wavelength 500nm.
- 8. Calculate the thickness of a mica sheet required for making a quarter wave plate and half wave plate. Given λ =5460A⁰, μ ₀=1.586 and μ _e=1.592.

SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Explain spherical aberration. How the spherical aberration eliminated when two lenses separated by some distances?

(OR)

- 10. Explain chromatic aberration. Explain methods to rectify chromatic aberration.
- 11. Give the procedure for determining the wavelength of the given source of light using Fresnel's biprism.

(OR)

- 12. How do you determine the wavelength of the monochromatic light using Newton's rings?
- 13. What is zone plate? Explain the construction and working of zone plate.
- 14. Determine the wavelength of light using diffraction grating.
- 15. Define specific rotation. How it is determined by using Laurent's half shade polarimeter?
- 16. Explain half wave plate and quarter wave plate.
- 17 Explain the construction and working of He-Ne Laser.

(OR)

18. Explain how a hologram is prepared and viewed. Give the applications of holography.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 75 : II B.Sc (MPC, MPCS) Class Pass Mark: 30 Subject : Physics Duration : 3Hrs Title of Paper: Heat and Thermodynamics : 2pm - 5pm Time Paper Code : R20PHY301 :21-10-2024 Date : 2022-2023 W.E.F SECTION-A 5X10=50M I. Answer the following Questions 1. Derive an expression for Maxwell's law of distribution of Molecular speeds in a gas. (OR) 2. On the basis of Kinetic theory of gases derive an expression for thermal conductivity of the conclusion. a gas and discuss 3. What is T-S diagram? How efficiency can be determined from it. Mention its uses. 4. Explain the working of Carnot's Engine and its efficiency. 5. What are thermodynamic potentials? Derive Maxwell's thermo dynamic relations from thermodynamic potentials. (OR) 6. Define CP and CV. why CP is greater than CV. Derive an expression for difference of specific heats 7. What is Joule Thomson effect? Obtain the expression for cooling produced when gas suffers Joule-Thomson effect. (OR) 8. Explain adiabatic demagnetization method for producing very low temperatures with necessary theory. 9. Derive an expression for Plank's radiation law. Deduce Wien's Law from it. (OR) 10. What is solar constant? Determine the temperature of the Sun. SECTION-B 5X3=15M II. Answer THREE the following Questions 11. Explain transport phenomena. 12. What is indicator diagram? Write its uses. 13. Derive an expression for ratio of CP to Cv. 14. Write the applications of substances at low temperatures. 15. State and Explain Stefan's Law. SECTION-C 5X2=10M III. Answer TWO the following Questions 16. The r.m.s speed of hydrogen molecule is 1.84km/sec. what will be the r.m.s speed of oxygen molecule at the same temperature. 17. Calculate the efficiency of a reversible heat engine working between 227°C and 27°C. 18. Calculate the work done when a molecule of an ideal gas expands isothermally at 127°C to double its original volume (R=8.314 Jdeg-1mol-1) 19. Determine the temperature of the sun with the help of wien's law given b=2.92x10-3mk maximum wavelength =4900A^o

om No:	Rega No:
KAKARAPARTI BHAVANARAY	ANA COLLEGE (AUTONOMOUS)
III – SEMESTER EN	Max Marks: 60
: II B.Sc Hon(Physics)	Pass Mark : 24
bject : Physics le of Paper : Heat And Thermodynamics	Duration : 3 Hrs
per Code : R23PHY302	Time : 2pm-5pm
E.F : 2024-25	Date : 17-10-2024
	ECTION-A 5x4=20N
Answer any <u>FIVE</u> of the following Question Explain mean free path.	
What are differences between reversible and	irreversible process.
Show that entropy increases in irreversible p	rocess
Derive Joule-Kelvin coefficient for ideal gas.	
Distinguish between adibatic and joule Thon	ason expansion.
State and Explain Wien's displacement Law.	
Calculate the efficiency of a reversible heat e	
Determine the temperature of the sun with t	he help of wien's law given b=2.92x10 ⁻³ mk
maximum wavelength =4900A ⁰	
	SECTION-B
Answer ALL the following Questions	5X8=40
. Derive an expression for Maxwell's law of dis	(OR)
0. On the basis of Kinetic theory of gases der	ive an expression for thermal conductivity
a gas and discuss the conclusion.	
1. What is T-S diagram? How efficiency can b	
1 1:0	(OR)
2. State and explain Carnot's theorem.	
3. What are thermodynamic potentials? Deri	ve Maxwell's thermo dynamic relations from
thermodynamic potentials.	
memodynamic peteriore.	(OR)
4. What is joule-kelvin effect explain the joul	e kelvin effect from Maxwell's
thermodynamic potentials	
incrinodynamic posterior	
5. What is Joule Thomson effect? Obtain the	expression for cooling produced when gas
suffers Joule-Thomson effect.	
Suiters o'oute Thomson one	(OR)
16. Explain adiabatic demagnetization method	
necessary theory.	
K 1	
7. Derive an expression for Plank's radiation	
	(OR)
18. What is solar constant? Determine the ter	A 1750

Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

Room No:

III - SEMESTER END EXAMINATIONS Max Marks: 75

Class

: II B.Sc (MPC, MPCS)

Pass Mark: 30

Subject

: Physics

: 2022-23

Title of Paper: Heat And Thermodynamics

Duration: 3 Hrs

: 2pm-5pm

W.E.F

Paper Code : R20PHY301A

Time Date-

: 21-10-2024

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Explain Trasport phenomena.
- 2. Calculate the efficiency of reversible heat engine working between 72°C and 187°C.
- 3. Show that the entropy increase in an irreversible process.
- 4. Derive expression for ratio of Cp to Cv.
- 5. Find the wave length at which maximum energy is radiated by a black body having a temperature of 327°C. The Wien's Constant is 2.897 x 10-3 mK.
- 6. State and explain Stefan's law.
- 7. What is an indicator diagram? Write its uses.
- 8. Explain the principle and working of refrigerator.

SECTION-B

II. Answer the following Questions

5X8=40M

9. Derive an expression for Maxwell's Law of Distribution of Molecular speeds in a gas.

(OR)

- 10. On the basis of Kinetic theory of gases derive an expression for thermal conductivity of gas and discuss the conclusion.
- 11. State and prove Carnot's theorem.

(OR)

- 12. What is P-V diagram? Explain the working of Carnot's engine and find its efficiency.
- 13. What are the thermodynamic potentials? Derive Maxwell's thermo dynamic relations from thermo dynamic potentials.

(OR)

- 14. What is Joul-Kelvin effect? Explain the Joul-Kelvin effect from Maxwell's Thermodynamic Relations.
- 15. What is Joule Kelvin effect? Describe Porous plug Experiment and indicate the results.

(OR)

- 16. Explain adiabatic demagnetization method for producing very low temperatures with necessary theory.
- 17. What is pyrometer? Describe the construction and working of disappearing filament optical pyrometer. (OR)
- 18. Derive an expression for Plank's radiation Law. Deduce Wien's Law, from it.

	75
Ro	om No: Regd No:
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III – SEMESTER END EXAMINATIONS
Cl	ass : II B.Sc Honours (Phy) Max Marks : 60
	bject : Physics Pass Mark : 24
Tit	le of Paper : Analog and Digital Electronics Duration : 3 Hrs
	per Code : R23PHY304 Time : 2pm - 5pm
W.	E.F : 2024-25 Date : 19.10.2024
	SECTION-A
Ι	Answer any <u>FIVE</u> of the following Questions 5X4=20M
1.	Explain the basic principle of feedback amplifiers(positive & negative feedback derivation
2.	Explain the Concept of virtual ground in OP-AMP
3.	Explain the working of OP-amp as Summing Amplifier.
4.	Write a brief note on SOP and POS forms with examples.
5.	State and prove De-Morgan's first theorem.
6.	Explain the working of Half Sub tractor.
7.	Define Decoder. Explain about 2 to 4 line decoder with diagram and truth table.
8.	Explain the working of D- flip flop with truth table.
	SECTION-B
II.	Answer the following Questions 5X8=40M
	What is an Op-Amp? Draw and explain the block diagram of OP-AMP.
	(OR)
10	Draw the circuit diagram of inverting and non inverting amplifiers and obtain
	expression for its voltage gains?
11	Explain about Input offset voltage, Input bias current, CMRR, Slew rate.
	(OR)
12	Explain the working of OP-AMP Integrator and Differentiator.
13	Explain about Decimal, Binary, Hexadecimal, Octal systems with examples.
	(OR)
14	Explain about NAND as Universal gate (AND, OR, NOT, NOR, XOR from NAND).
15	Explain the working of Half adder & Full adder with their diagrams and truth tables.
	(OR)
16	
10	Define De-multiplexer? Explain the working of 1 to 4 De-multiplexer with diagrams.
17	What is Flip Flop? Explain the working of clocked-RS flip flop with truth table.
	(OR)
18	Explain briefly about BCD to 7 segment Decoder.

R	Room No:	Regd No:			
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS				
Su Ti	Class : II B.Sc Honours (Phy) Max M Subject : Physics Pass M Title of Paper : Electronic Devices And Circuits Paper Code : R23PHY303 Time W.E.F : 2024-25 Date	fark : 24			
	SECTION-A				
	 I. Answer any <u>FIVE</u> of the following Questions 1. Explain the difference between P-N Junction diode and Zen 	5X4=20M er diode.			
2.	2. Briefly explain Zener diode.as a voltage regulator.				
з.	3. Explain the working of PNP transistor.				
4.	4. Explain the concept of thermal runaway.				
5.	5. Distinguish between JFET and MOSFET.				
6.	6. Explain the Applications of SCR.				
7.	7. Write a short note on Light-Dependent Resistor (LDR)				
8.	8. Explain briefly about Choke input.				
	II. Answer ALL the following Questions 9. What is P-N junction diode? Explain the working and V-I chained diode.	5X8=40M naracteristics of P-N junction			
	(OR)				
10	10. Explain the working of Tunnel diode and its V- I Characte	ristics.			
11	11. Explain the input and output characteristics of Common I Transistor.	Base Configuration of a			
	(OR)				
12	12. Why h - parameters are known as hybrid parameters? Des from the characteristics of CE configuration.	cribe how they determined			
13	13. Explain the working of an JFET and explain its Drain & T	ransfer characteristics.			
	(OR)				
14	14. Explain the working and V-I characteristics of Silicon Con	trolled Rectifier (SCR).			
15	15. Explain the Construction, working and applications of Lig (OR)	ht Emitting Diode (LED).			
16	16. What is Photo Diode? Give its circuit symbol, principle and	d working of Photo Diode.			
17	17. What is rectification? Explain the operation, working of Fuefficiency.	all wave rectifier & derive its			
10	(OR) 18 Explain briefly about I section filter & Bi Section Filter				
TS	18. Explain briefly about L-section filter & Pi- Section Filter.				

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : 60 Max Marks : II B.Sc Honours (Ele) Class : 24 Pass Mark : Electronics Subject Title of Paper: SemiConductor Devices And Materials Duration : 3 Hrs : 2pm-5pm Time Paper Code : R23ELE301/R23MELE301 : 16-10-2024 Date : 2024-25 W.E.F SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Explain drift and diffusion mechanisms in carrier transport. 2. Briefly describe velocity saturation in semiconductors. 3. Briefly Describe the Significance of Hetero junctions in Semiconductor Devices. 4. Explain the Difference Between Schottky and Ohmic Contacts. 5. Explain the C-V Characteristics of an Ideal MOS Capacitor. 6. Describe the Structure and Function of Light-Emitting Diodes (LEDs). 7. Explain the Concept of Quantum Wells and Their Applications. 8. Briefly Explain the Mid-Frequency Response of an RC-Coupled Amplifier. SECTION-B 5X8=40M II. Answer the following Questions 9. Explain the Energy Band Structure in Inorganic Semiconductors. (OR) 10. Discuss the Injection and Recombination of Excess Carriers in Semiconductors. 11. Explain the Structure and I-V Characteristics of Metal-Semiconductor (MS) Contacts (OR) 12. Discuss the Structure, Operation, and C-V Characteristics of Metal-Insulator-Semiconductor (MIS) Structures. 13. Discuss the Structure, Operation, and Device Characteristics of a MOSFET. (OR) 14. Explain the Structure and Operation of Charge Coupled Devices (CCDs) and their application in VLSI. 15. Discuss the Structure and Operation of a Solar Cell. (OR) 16. Explain the Working Principle and Structure of a Non-Volatile Memory Device. 17. Explain the Behaviour of a BJT at High Frequencies.

(OR)

18. Explain the Structure and Frequency Response of a Transformer-Coupled Amplifier.

Room No:	41	Rege	d No:	21	
KAKARAPARTI BHAVANARA	YANA COLLEG	E (AUTONO	MOUS)		
III - SEMESTER E					
Class : II B.Sc Honours (Electron Subject : Electronics Title of Paper : Electronic Communicat Paper Code : R23ELE304	nics)	Max Mark Pass Mark Duration Time Date		5pm 2024	
W.E.F : 2024-25	SECTION-A	Date			-
I. Answer any <u>FIVE</u> of the following Q		*		5X4=20N	1
Explain the Ground wave Propagation		= 2			
2. What is the Antenna? And write its p	***				
3. Explain the Generation of DSBSC					
4. What is Modulation? Explain the need	l of Modulation	i.			
5. Explain the working of Frequency Mo					
5. Explain the working of Frequency has					
7. Explain the concept of sampling.		*			
8. Explain the concept of CDMA.	10				
s. Explain the concept of ODMI					
	SECTION-B	*			
II. Answer ALL the following Question	ns			5X8=40	M
9. Explain the terms (a) Folded Dipole		ntennas.		*	
	(OR)				
10. Explain the terms (a) effective resist	ance (b) Polari	zation.			8)
11. Explain the block diagram of AM R					
	(OR)				
12. Explain the block diagram of Super	heterodyne rec	eiver.			
13. Explain the Generation of FM usin					
	(OR)				
14. Explain the block diagram of FM r	eceiver.			28	
15. Explain the Generation of Pulse Co		(PCM).			
16. Explain the Generation of Delta M	odulation.				
17. What is Multiplexing? Explain the		A.			
	(OR)		20		
18. Explain briefly about Satellite Con	munication.	20-			

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Room No:	Regd No
KAKARAPARTI BHAVANARAY	ANA COLLEGE (AUTONOMOUS)
III – SEMESTER EN	
Class : II B.Sc Hon(Electronics)	Max Marks : 60
Subject : Electronics	Pass Mark : 24
Title of Paper: Analog Electronics	Duration: 3Hrs Time: 2-pm - 5pm
Paper Code : R23ELE303	Time : $2pm - 5pm$ Date : $18 10 2024$
W.E.F : 2024-25	Date . 18(10/2027
SEC	TION-A
I. Answer any <u>FIVE</u> of the following Questions	5X4=20M
1. Explain the power dissipation in amplifier	
2. What is gain and frequency response	
3. What is input and output resistance of various	s types of feedback?
	5 5) poo or 1, 0 and 1
4. What is transfer gain with feedback	
5. Explain the differential gain and bandwidth	
6. What are the offset parameters of operational	amplifier
7. What are active filters	
8. Explain the working of crystal oscillator	
SECTION	<u>-B</u>
II. Answer ALL the following Questions	5X8=40I
9. Explain the transformer coupled amplifiers	
(OR)	
10. Explain the working of class A and class B a	amplifiers
11. Explain the working of negative feedback an	npmier
(OR)	
12. Explain the analysis of voltage and current i	in feedback amplifier circuit
13. Explain the terms CMRR and slew rate	
(OR)	
14. Explain the operational amplifier transfer ch	naracteristics
15. Explain the working of non-inverting amplif	
(OR)	
	nomn
16. Explain the working of adder circuit using of	pamp
17. Explain the working of Schmitt trigger	4
(OR)	
18. Explain barkhausen criterion for oscillation	.s

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R	oom No:	Regd No:
	KAKARAPARTI BHAVANARAYANA CO	
	III – SEMESTER END EXA	MINATIONS
C	lass : II B.Sc Honours (Electronics)	Max Marks : 60
	ubject : Electronics	Pass Mark : 24
	tle of Paper : Digital Electronics	Duration : 3 Hrs
	1	
	aper Code : R23ELE302	Time : 2pm-spm
	.E.F : 2024-25	Date : 17-10-2024
	SECTION	
	SECTION	- <u>A</u>
I.	Answer any FIVE of the following Questions	5X4=20M
1.		
2.		
	Explain about Universal Logic Gates (NAND & I	2,
	State and prove De-Morgan's theorem.	NON with their Truth Tables
	La contract to the contract of	
	Explain about Magnitude Comparator.	to the state of the same and some a second state of the
	Define Decoder. Explain about 3 to 8 line decoder.	
	Explain the working of JK-flip flop with truth to	able.
8.	Write a short note on EAROM.	
	SECTION	<u>-B</u>
II	Answer ALL the following Questions	5X8=40M
9.	Explain about 1's, 2's, 9's and 10's Complement	nts with examples.
	(OR)
10	 Explain about Excess-3 Code and BCD to Ex Conversions. 	ccess-3 Code & Excess-3 Code to BCD
1:	L. Explain about AND, OR, NOT, XOR, X-NOR	ogic gates with their truth tables
•	(OR	
10	The second contract of	Marine action of course are an all account.
12	2. Write about Karnaugh Maps & Explain ab	out 2, 3, 4 variable K-maps with
	tables.	-11 O-1-4 11 11 11 11
10	3. Explain the working of Half Subtractor & F	uli Subtractor with their diagrams
	and Truth tables.	
	(OR	A support of the supp
14	 Define Multiplexer? Explain the working of 4 	to 1 Multiplexer with diagrams.
15	5. Explain the operation of Master - Slave Fl	ip-flop with neat circuit & timing
	diagrams.	
,	(OR)
16	5. Explain the working of Asynchronous Mod-16	Counter with diagram
	7. Explain about RAM and its types (S-RAM, D-	7
	(OI	
15	 Explain briefly about EPROM and EEPROM. 	
	- 21-paul orion, about Di Row and DDi Row.	

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.Sc (MECS) Class Pass Mark: 24 : Electronics Subject Title of Paper: Analog Circuits And Communication Duration : 3 Hrs : 2pm-5pm Time Paper Code : R20ELE301A : 21-10-2024 Date : 2022-23 W.E.F SECTION-A 5X4=20M I. Answer the following Questions 1. What is Operational Amplifier? 2. What is comparator? Describe the working of OP-amp Comparator and mention its uses? 3. Explain the different types of modulations. 4. Explain the working of OP-amp Summing Amplifier. 5. Explain the working of Schmitt's trigger? 6. Explain the need for modulation. 7. What is Detection? Explain the operation of FM wave detector. 8. Explain Radio Broadcasting and reception. SECTION-B 5X8=40M II. Answer any FIVE of the following Questions 9. Explain the working of OP-AMP Integrator and Differentiator? (OR) 10. Draw and explain the block diagram of Operational amplifier? 11. Draw the circuit of A stable Multi-vibrator using OP-AMP? Explain its working and derive expression for frequency of Oscillations? (OR) 12. What is Active filters? Explain the Low, high and band pass filters? 13. What is Detection? Describe the working of a diode detector for AM waves. (OR) 14. What is Modulation? Describe with suitable waveforms the working of amplitude modulation. 15. Explain frequency modulation technique and describe its frequency spectrum. (OR) 16. Draw and explain how FM waves can be detected using PLL method. 17. Draw the block diagram of FM Transmitter and explain each block. (OR) 18. Draw the block diagram of AM Super heterodyne receiver and explain each block.

Regd	No:	45 Room	No:
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	KAKARAPARTI BHAVANARAYAN III SEMESTER END		, (os)
Section College	ect : Chemistry of Paper: Organic Chemistry & Spectroscop r Code : R20CHE301	Max Marks Pass Mark y Duration Paper Time Date	:75 :30 :3 Hrs :2pm -5pm : 23/10/2020
	SECTION	<u> </u>	20 (10)20
l. Ans	wer any <u>FIVE</u> Of the following questions.		5X5=25M
ı. Di	fferentiate primary, secondary and tertiary a	alcohols by using Lucas Te	est.
	plain Riemer-Tiemann reaction.		
3. Ex	plain Aldol Condensation with mechanism.		
1. W1	nat is Aceto Acetic Ester? How it is prepared	l?	
5. WI	nat is Schmidt reaction?		
5. Ex	plain the concept of Chromophore and Auxo	ochrome.	
7. Wi	rite a note on Spin-Spin Coupling.		
3. Ex	plain IR Spectra of Alcohols.		
	SECTION	<u>-В</u>	
	nswer ALL the following Questions		5X10=50M
9.	Explain the mechanism of SN ¹ and SN ² re (OR)	eactions of Alkyl halides.	
0.	Explain the following reactions. (i) Pinacol –Pinacolone rearrangement	(ii) Kolbe's- Schmidt rea	action
n.	Explain the following reactions with mechani) Cannizaro reaction ii) Bo	anism. enzoin condensation	
	(OR)		
12.	Write the preparation and any two synthetic		nalonate.
13.	Write a note on Huns diecker reaction and (OR)	Arndt- Eistert Synthesis.	
19.	Describe any two methods of preparation a	and Esters and Amides.	
12.	Explain the different types of electronic tra (OR)	ansitions with examples.	
16.	Define Chemical Shift. And Explain the NM	IR splitting in ehanol and	acetophenone.
17.	Write Wood ward- Fieser rules for calculation unsaturated carbonyl compounds and approximately (OR)		lienes and α,β-
18.	i) What is Fingerprint region.		
	ii) Write IR spectral data for any alkene, a	aldehydes and ketones.	

Room No:

Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

Class

: II Degree Hon(All Groups)

Max Marks: 50

Subject

Pass Mark : 20

: Chemistry

Duration : 2 Hrs

Title of Paper: Health And Hygiene

Time

: 2pm - 4 pm

W.E.F

Paper Code : R23MDP301

: 2024-25

Date ·

: 14.10.2024

SECTION-A

I. Answer any FOUR of the following Questions

4X5=20M

- 1. Discuss the functions and sources of Water.
- 2. Define Nutrition and explain its importance.
- 3. Explain the functions of Indian Council of Medical Research.
- 4. What is JSSK? Discuss.
- 5. Write a short notes on functions of Covid-19 AP App.
- **6.** Define personal Hygiene and explain its importance.

SECTION-B

II. Answer any THREE of the following Questions

3X10=30M

- 7. Explain the functions, Dietary food sources and deficiency of Vitamins.
- 8. Discuss the effects of deficiency of Carbohydrates, Lipids and Proteins.
- 9. Explain about the functions of National Urban Health Mission frame work and Indian Dietetics Association.
- 10. Evaluate the role of government and public guide lines in the containment, control and Prevention of epidemics and pandemics.
- 11. Explain about the public awareness programs through digital media.

Regd No Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.Sc Hon(Chemistry, Microbiology, Biotechnology, Computer Science) Class Max Marks : 60 . 24 Pass Mark : Chemistry Subject Duration : 3Hrs Title of Paper: Fundamentals in Organic Chemistry : 2pm-5pm Paper Code : R23CHE301/R23MCHE301 Time : 16-10-2024 Date : 2024-25 W.E.F SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Define Homolytic fission & Heterolytic fission. 2. Discuss the basicity of amines. 3. Explain Wurtz & Wurtz-Fittig reaction. 4. Explain Corey-house synthesis method. 5. Discuss the ozonolysis of alkenes. 6. Write a note on Hoffmann's elimination. 7. Explain any two methods of preparation of Benzene. 8. Write the halogenation of Benzene. SECTION-B 5X8=40M II. Answer any ALL of the following Questions 9. Write a note on i) Hyperconjugation ii) Stability of carbonium ions. 10. Explain the following i) Bond Polarisation ii) Factors effecting polarisation. 11. Explain Bayer's strain theory (OR) 12. Discuss the confirmational analysis of cyclohexane with neat diagram. 13. Explain Saytzeff's elimination in alkyl halides. 14. Explain the Markownikoff's addition of HX in alkenes with suitable examples. 15. Discuss the structure of Benzene. (OR) 16. Write a note on the following: i) Friedel Craft's alkylation ii) Friedel Craft's acetylation 17. Explain the orientation effects of amino and methyl group. (OR) 18. Write a note on Benzenoid and non-benzenoid compounds.

Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS

Class

Room No:

: II B.Sc (All)

III - SEMESTER END EXAMINATIONS Max Marks: 50

Subject

: Chemistry

Pass Mark: 20

Title of Paper: Environmental Audit

Duration : 2 Hrs

Paper Code : R20SDC301C

Time

W.E.F : 2021-22

:2pm-4pm Date :16-10-2024

SECTION-A

I. Answer any FOUR of the following Questions

4X5=20M

1. Write any three global environmental problems.

- 2. Write a short note on Nature and toxicology of Water pollutants.
- 3. Write about Water Quality Parameters
- 4. What are the Objectives of the environmental Acts, and institutional arrangements.
- 5. Write a short note on Environmental Act 1986.
- 6. Write a short note on the public liability insurance Act 1991.
- 7. What is the scope of Environmental Audit.
- 8. What is GOI notification on Environment Audit.

SECTION-B

II. Answer any THREE of the following Questions

3X10=30M

- 9. What is soil parameters and explain detail about soil pollution and their Soil Conservation.
- 10. Explain about
 - a) Classification of Water and water bodies.
 - b) Classification of Air pollution & pollutants.
- 11. Write a essay on the Air (Prevention and control of Pollution) Act, 1981 amended 1981
- 12. Explain about
 - a) The public Liability Insurance Act , 1991
 - b) The Water Cess Act, 1977 amended in 1991
- 13. What is Reporting Environmental Audit Findings and explain importance of Environmental Audit Report to industry

Regd No Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) I/I - SEMESTER END EXAMINATIONS Max Marks : 60 : II B.Sc Hon(Chemistry) Class Pass Mark : 24 Subject : Chemistry Title of Paper: Inorganic & Physical Chemistry Duration : 3Hrs :2Pm -5Pm Time Paper Code : R23CHE304 : 19.10,2024 W.E.F : 2024-25 Date SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Discuss Valence bond theory. 2. Write a note on spectrochemical series. 3. What are Labile & Inert complexes. 4. What is chelate effect? **5.** Draw the Molecular orbital diagram for CO. **6.** Derive Cp-Cv =R. 7. Define Heat, work & Internal energy. 8. Explain Second law of Thermodynamics. SECTION-B 5X8=40M II. Answer ALL of the following Questions **9.** Write a note on structural isomerism in coordination compounds. (OR) 10. Discuss Crystal Field splitting in Octahedral complexes. 11. Explain Trans effect and give its applications. (OR) **12.** Write a note on factors effecting the stability of metal complexes. 13. Discuss the general methods of preparation of mono & binuclear carbonyls of 3d series. (OR) 14. What is Synergic effect? Write the use of IR data to explain the extent of back bonding. 15. Derive Kirchoff's equation. (OR) 16. Calculate the work done in a reversible isothermal process. 17. Calculate the efficiency of a carnot cycle. (OR) **18.** Derive Gibb's Helmholtz equation.

Regd No KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS

Class

Room No:

: II B.Sc Hon(Chemistry)

Max Marks : 60

: 24

Subject

: Chemistry

Pass Mark

Title of Paper: Physical Chemistry-I (Solutions & Electrochemistry) Duration Paper Code : R23CHE303

: 3Hrs

Time

: 20m - 5pm

W.E.F

: 2024-25

Date

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Explain Steam Distillation with neat sketch.
- 2. What is Relative lowering of Vapour pressure?
- 3. Explain Osmosis & Osmotic pressure.
- **4.** Write a note on Laws of Photo chemistry.
- 5. Explain Photo Sensitisation reactions.
- 6. Write a short note on conductometric titrations.
- 7. What is Specific conductance and Equivalent conductance.
- 8. Write a short note on Standard Hydrogen Electrode.

SECTION-B

II. Answer ALL of the following Questions.

5X8=40M

9. Define CST and explain phenol-water system using Critical Solution temperature

(OR)

- 10. Explain Nernst's Distribution law and give any two applications of it.
- 11. How will you determine the relative lowering of vapour pressure of a liquid by using Ostwald and walker's method.

(OR)

- **12.** Explain Vanthoff factor and its relation with degree of association.
- 13. Define quantum yield and discuss the photo chemistry of H2 and Br2 reaction with mechanism.

(OR)

- 14. Write a note on fluorescence with the help of Jablonski diagram.
- **15.** Define transport number and explain its determination by Hittorff's method.

(OR)

- 16. State & Explain Kholrausch's law and mention any three of its applications.
- 17. Describe the construction and working of Calomel electrode.

(OR)

18. What are Fuel cells? Explain their construction & working.

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	KAKARAPARTI BHAVANARAYA	Regd No: NA COLLEGE (AUTONOM)	OIIS)
C	III - SEMESTER END EXAMINATIONS		
	Little (III C, MCCE, CBZ)	Max Marks: 60 Pass Mark: 24	
Ti	tle of Paper : Organic Chemistry and Spectroscopy	Duration : 3 Hrs	
Pa	aper Code : R20CHE301A	Time : 2 pm -5 pm	9
VV	E.F : 2023-24	Date : 23 10 2	024
	SECTION-A	*	
I. 1.	Answer any <u>FIVE</u> of the following Questions Write about mechanism of pinacol-pinacolone rearra	ngement.	X4=20M
7	Differentiate 1°, 2° and 3° alcohols by victor Meyer's test		
3.	Write about the aldol condensation reaction.		
H POTO	Write any two synthetic applications diethyl malonat	e. (
	Write a note on Schmidt's reaction.		
6.	What is Beer-Lambert's Law and write its limitations.		
7.	Write a note on spin-spin coupling.		
8.	Write a note on finger print region.		
	SECTION-B		
9.	Answer ALL the following Questions Give the mechanism & stereo chemistry of SN ₁ and SN ₂ reactions of alkyl halides with one example. (OR)		
10	Write any two preparation and properties of Phenol.		
11	Explain the following reactions		
	(i) Perkin reaction (ii) Benzoin condensation		
12	Write the presention and the value of the control o		
12.	Write the preparation and two synthetic applications	s ethyl aceto acetate (EAA).	
13.	Write any two preparation and properties of amides.		
	(OR)		
14.	Discuss about the Arndt-Eistert synthesis and halog	genation by HVZ reaction	
15.	Explain about different types of electronic transition	s.	
	(OR)		1.44
16.	Discuss about the principle of NMR spectroscopy.		
17.	Write Woodward Fieser rules for calculating unsatur apply them for one example.	ated carbonyl compounds a	and
	(OR)		
18.	Explain about different types of molecular vibrations		

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	KAKARAPARTI BHAVANARAYANA CO	LLEGE (Regd No:	t.
	III - SEMESTER END EXAM	IOITANIN	VS	
1	lass : II B.Sc Honours (Che)	Max Ma	rks : 60	
	ubject : Chemistry	Pass Ma		
1	tle of Paper : Organic Chemistry	Duration	n :3 Hrs	
D	(Halogen & Oxygen Organic Compounds)	¥		
	aper Code : R23CHE302	Time	:2pm-5pm	
VV	.E.F : 2024-25	Date	: 17-10-2024	
1.	Answer any FIVE of the following Questions Write a note on benzyne mechanism. Explain Williamson's synthesis.	<u>-A</u>	5 X 4=2	20M
1				
	Write any two preparation methods of phenols.	Ť		
	Write the reactivity of alcohols with PCl ₃ , PCl ₅ .			
The same of	Write the reactivity of carbonyl compounds with LiAlH	4, NaBH4.		
	What is HVZ reaction?			
	Explain keto-enol tautomerism.			
8.	Write a note on mutarotation			
9.	Answer ALL the following Questions Explain SN ¹ and SN ² mechanism. (OR) O. Write the preparation of aryl halides from phenols and		5X8=40 eyer's reaction.	MC
16.	Write a note on the fallowing. i) Reimer –Tiemann reaction ii) Kolbe-Schmid (OR)			
12	Discuss the oxidation of alcohols		14	
	i) PCC ii) PDC iii) HIO4 iv) Pb(OAC)4		• • • • • • • • • • • • • • • • • • •	
13	Discuss the addition – elimination reactions of carbon reagents i) NH ₂ OH ii) N ₂ H ₄ iii) 2, 4-DNP (OR)	yl compo	unds with following	
14	Describe the reaction and mechanism of the following i) Clemensen's ii) Wolf - Kishner reduction	reactions	#	
15.	Explain the following reactions i) Huns dicker reaction ii) Schmidt reaction (OR)			
16.	Discuss any two synthetic applications of Aceto acetic	ester		
17.	Give the structural elucidation of glucose (OR)			
18.	Explain Ruff 's degradation and Killiani Fischer's synth	nesis		
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Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II BBA Hon/B.Com Hon (TP) /BBA Hon (BA) Class Pass Mark: 24 : Computer Science Subject Duration : 3 Hrs Title of Paper: Object Oriented Programming Using Java : 2pm - 5 pm Time Paper Code : R23MNCSC301 : 21-10-2024 Date W.E.F : 2024-25 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. What is a Variable? How to declare Variables in Java? 2. Explain about Java Environment. 3. Mention different String Operations in Java. 4. What is a Class? Explain about Abstract Classes. 5. Write a process to create Package and sub-Package. 6. Explain about Super class and Sub class. 7. Write a short note on Java API Package. 8. Explain about Checked and un Checked Exception. **SECTION-B** 5X8=40M II. Answer ALL the following Questions 9. Explain OOPs Concepts in Java. (OR) 10. What is an Operator? Explain types of Operators in Java with example. 11. Explain different types of Arrays in Java. (OR) 12. What is Constructor? Explain types of Constructors with syntax and example. 13. Define Interface? Explain Extending and Implementing Interfaces with example. (OR) 14. What is a Package? How to create and access our own packages? 15. Define Inheritance? Write about types of Inheritances in detail. (OR) 16. Explain about multi level inheritance with example program? 17. What is an Exception? Explain about built in Exceptions. (OR) 18. Explain the following terms. 1. Try 2. Catch 3. Throw 4. Throws 5. Finally.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.Voc Honours (WT) Class Pass Mark: 24 : Computer Science Subject Title of Paper: Content Management System Duration : 3 Hrs : 2pm - 5pm Time Paper Code : R23WT302 : 17-10-2024 Date : 2024-25 W.E.F SECTION-A 5X4=20M I. Answer any <u>FIVE</u> of the following Questions 1. Define CMS. Write the features of CMS. 2. Explain about applications of CMS. 3. Distinguish between WordPress.com and WordPress.org. 4. What is Database Structure? Explain it. 5. Explain the procedure to select themes in WordPress. 6. What is DNS? Explain it. 7. Explain about Payment Gateway. 8. How to install a new Template in Joomla? SECTION-B 5X8=40M II. Answer <u>ALL</u> the following Questions 9. Write Advantages and Disadvantages of CMS. (OR) 10. Explain about the different types of CMS and its applications. 11. Write the steps to install the WordPress. (OR) 12. Explain about features of WordPress. 13. Define Plug-in. Explain about different types of Plug-ins in WordPress. (OR) 14. How does the process of adding and publishing posts differ from creating pages in WordPress? 15. Write about features and advantages of live chat Plug-in.

(OR)

16. Explain about Sidebar Plug-in and Search Plug-in.

18. Write about Menu Manager and Component Manager in Joomla.

17. Explain about features of Joomla.

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Room No:		Regd No:
KAKARAPARTI BHAVANARAYAN. III - SEMESTER END B		TONOMOUS)
Class : II B.Sc Honours (AI)	Max Marks	
Subject : Computer Science	Pass Mark	
Title of Paper: Document Oriented Database	Duration	: 3 Hrs
Paper Code : R23AI301	Time	:2pm-5pm
W.E.F : 2024-25	Date	:16-10-2024
- N	rion-a	***************************************
I. Answer any <u>FIVE</u> of the following Questions	*	5X4=20M
 What are the characteristics of Data Base Appro 	ach?	
2. Explain Multiple views of data.		
3. What is Mongo DB? Explain its features.		
4. Explain types of NOSQL Data base.	\$	
5. Explain the process of creating a collection in M	ongo DB.	
5. Explain about array operation in Mongo DB.		
7. Define the Term Document Reference.		
8. What are the properties of Indexes?	4	
	and the state of	
SECT	rion-b	
II. Answer ALL the following Questions 9. Explain sharing data and multi user Transaction		5X8=40M
(OR)		
10. Explain briefly about the three schema architec	cture	
Explain briefly about the times schema architect	cture.	8
11. What is Document Database? Explain its featu	res.	
(OR)		• a d
12. Explain the Database commands of Mongo DB	with example.	
13. Explain about CRUD operations of Mongo DB.		
(OR)		
14. What is collection? Explain about types of colle	ections in Mongo	DB.
	*	
15. What is Data modeling? Explain its types.		
(OR)		100
16. Explain briefly about Embedded document date	a model.	
Define term indexing. Mention its applications	in document dat	tabase.
(OR)		
18. Explain about Indexing strategies.		

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours(AI) Max Marks: 60 Subject : Computer Science Pass Mark : 24 Title of Paper: Data Processing & Visualisation Duration : 3 Hrs Paper Code : R23MAI304 Time : 2pm-spm W.E.F : 2023-24 Date 17-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Explain about Tableau and Tableau Desktop. 2. Explain about Aggregation in a tableau. 3. Explain about dash boards in tableau. 4. Explain about Dual-axes combination chart. 5. Explain about Spark line's in tableau. **6.** Explain about Box and whisker plot. 7. Explain about funnel chart and gnat chart. 8. How to add slices for filters. SECTION-B II. Answer ALL the following Questions 5X8=40M 9. Explain about Dimensions and Measures in Tableau. (OR) 10. Explain how to shape you data using Tableau. 11. Explain the Five ways to create bar chart. (OR) 12. Explain how to create sets in Tableau. 13. Explain about Heat Map in Tableau in detail. (OR) 14. Explain about Histogram in Tableau. 15. Explain about Dual - axis and sequential path in tableau. (OR) 16. Explore about Dumb bell chart in tableau. 17. Explain about Transforming Data in power Bi. (OR) 18. Explain how to create a basic report using power Bi.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II BCA Max Marks: 60 Subject : Computer Science Pass Mark: 24 Title of Paper: Operating Systems Duration: 3Hrs :2pm-5pm Paper Code : R20BCA303A Time : 22-10-2024 W.E.F : 2022-2023 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Explain the concept of storage Management? 2. Explain Inter Process communication? 3. Explain about Scheduling Criteria? 4. Explain about Critical Section Problem? 5. Explain about Semaphores? 6. Explain about Swapping? 7. Explain about Fragmentation? **8.** Discuss about Directory Structure? SECTION-B II. Answer ALL the following Questions 5X8=40M 9. What is Operating System? Explain different functions of Operating System? [OR] 10. Explain about different operating system services? 11. Explain about Round - Robin CPU Scheduling in detail? [OR] **12**. Explain about multiple levels of Queue Schduling? 13. Explain about Peterson's solution in detail? [OR] **14**. Explain the methods for handling Deadlocks? **15.** Explain about contagious memory allocation? [OR] **16.** Explain the concept of FIFO page replacement? 17. Explain about different File Access methods? OR **18**. Discuss about the features of UNIX operating System?

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	III – SEMESTER END EXA		
Cla		Max Marks	
500000000000000000000000000000000000000	oject : Computer Science e of Paper : OOPs with Java/Programming in Java	Pass Mark Duration	: 24 : 3 Hrs
	per Code : R20DSOJ301A/R20WSPJ301A	Time	:2pm-5pm
W.E		Date	:22-10-2024
	SECTION-	· <u>A</u>	
3 P 1 (05)	nswer any <u>FIVE</u> of the following Questions What is token? Explain different types of tokens ir	n iava	5X4=20
		Tjava	
	Write a short note on command Line Arguments		
3. \	Write about method overloading method in Java.		
4. I	Explain Visibility Control in Java		
5. I	How to adding a class in adjusted package.		
5. I	Explain about thread priority in Java.		
7. 1	Write about multiple catch statement.		
B. I	Explain procedure to run an applet.		
	SECTION-	В	
II.	Answer ALL the following Questions		5X8=40
9. 1	What are characteristics of OOPS.		
	(OR)		
10.	Explain different types of operators in Java.		
	Explain about collection statements in Java		
L	Explain about selection statements in Java		
	(OR)		
12.	What is Inheritance? Explain different types of is	nheritance in	Java
13.	What is Interface? How to implement multiple in	nheritance usi	ng interface
	(OR)		
14			
14.	Explain Java API Packages		
15.	What is thread? How to access multiple threads		
	(OR)		
16.	What is Exception? How can we define user define	ne exception v	with an example?
17	What is applet? Explain applet life cycle methods	s with neat did	agram
		s with neat the	agrain.
	(OR)		
18.	Explain how to create and run applet.		

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Ro	om No:		Regd No:
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	III – SEMESTER END EXA		. 60
	ass : II B.Voc (WT)	Max Marks Pass Mark	
	bject : Computer Science	Duration	
l'it	le of Paper : E-Commerce per Code : R20WSEC302A		:2pm-5pm
	E.F : 2023-24		:21-10-2024
	SECTION	<u>N-A</u>	5X4=20M
I.	Answer any FIVE of the following Questions		0AT-20III
	Write about Inventory Management		
2.	Define E-Commerce. Write its Advantages		
3.	Define EDI with its advantages		
4.	Write about Financial EDI.		
5.	Write about Work Flow Automation and Coordin	nation.	
6.	Write about the Internal Information Systems		
7.	Write about the concept of Digital Library.		
8.	Write about designing E-Payment System		
	SECTIO	N-B	
II	Answer ALL the following Questions		5X8=40M
9	Explain about E-Commerce with its Frame Wor	k.	
	(OR		
1	o. Explain about E-Commerce Consumer Applica	ations	
	Explain about MIME with its components.		
1			
	(OR		
1	2. Explain about EDI with its architecture.		•
1	3. Explain about Supply chain Management with	n its models.	
	(OR		
152			zation?
1	4. What are the advantages and disadvantages o	or virtual organiz	cation:
1	5. Explain the three approaches of Marketing in	E-Commerce	
	(OR		
	6. Explain about various methods in Marketing		
	Explain about various illeulous in Marketing	4	
1	7. Explain about EFT.		
	(OF	R)	
	18. Explain the Procedure of handling risks arising	ng out of E-Com	nmerce
	Lo. Explain the Procedure of Hamaning Fishe areas		

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Cla	III - SEMESTER END EX	화면 경험 경우 그 경영화 경기 전 경우 그는 경기 등을 가는 것이 되는 그 것이 없는 것이 없었다.
4 -0.00	bject : Computer Science	Max Marks : 60 Pass Mark : 24
1	e of Paper : Programming With C & C++	Duration : 3 Hrs
101200000	per Code : R20COMC303A	Time : 2pm spm
W.	E.F : 2023-24	Date : 22-10-2024
	SECTIO	N-A
	Answer any <u>FIVE</u> of the following Questions Explain I/O functions in C Language.	5X4=20M
2.	What is function? Write procedure to create use	r defined function.
3.	Explain different types of arrays with syntax	
4.	Explain the concept of Function Overloading.	
5.	Explain the difference between C and C++	
6.	Define constructor with example.	
7.	Explain different rules of operator overloading.	
8.	What is Inheritance? Explain single level Inherit	ance.
		'ION-B
	Answer ALL the following Questions Explain the Structure of the C program.	5X8=40M
	(OR)	
10.	Explain different looping statements in C.	
11.	Write different string functions with examples.	
	(OR)	
12.	What is an Array? Explain different types of arr	ays with examples.
13.	Explain the structure of C++	
	(OR)	
14.	Explain the difference between normal function	and static function with examples
		with order
15.	Explain briefly about Unary operator with exam	ınle
	(OR)	ipie.
16		
10.	Define Constructor? Explain types of Construct	fors with example.
17.	Write the advantages and disadvantages of Inho	eritance.
	(OR)	
18.	What is Hierarchical Inheritance? Explain with	example program.

Room No: Regd No KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc (MPCS, MSCS, MECS, MCCS) Max Marks : 75 Subject :Computers Science Pass Mark : 30 Title of Paper: Database Management System Duration : 3Hrs Paper Code : R20CSC301 Time :2pm -5pm . 22-10-2024 W.E.F : 2022-23 Date SECTION-A I. Answer any FIVE of the following Questions 5X5 = 25M1. What is the Difference between Data and Information? **2.** Explain the Building blocks of Entity relationship diagram? 3. Explain the Advantages of ER Model? 4. What is Key? Explain about various types of Keys? 5. Explain about Sub-Queries? **6.** Explain the Set operations? 7. Explain the structure of PL/SQL program? **8.** Explain the data types in PL/SQL? SECTION-B II. Answer ALL the following Questions 5X10=50M9. Explain about the Drawbacks of traditional File Processing System? (OR) **10.** Explain the Components of Database Management System? 11. What is Attribute? Explain about classification of Attribute? (OR) 12. What is EER model? Explain basic concepts of EER Model? 13. Explain the Advantages and Disadvantages of relational Algebra? (OR) 14. What is Normalization? Explain 1 NF, 2 NF and 3 NF with examples 15. Explain about DDL commands with examples? (OR) **16.** What is View? Explain the views with example? 17. Explain about Looping statements in SQL? (OR) 18. Explain the Triggers in PL/SQL?

Room No:	Regd No:
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III – SEMESTER END EXAMINATIONS	
Class : II B.Sc (MPCS, MSCS, MECS, MCCS) Max Marks : 60	
Subject : Computer Science Pass Mark : 24	
Title of Paper: Database Management Systems Duration : 3 H	
Paper Code : R20CSC301A Time : 2 P	M-5411
W.E.F : 2023-24 Date : 22	- 10 - 202T
SECTION-A	
I. Answer any <u>FIVE</u> of the following Questions	5X4=20M
1. Write about costs and risks of database approach?	
2. Explain attribute classification?	
3. Write a short note on Multiple inheritance?	
4. Explain the concept of key?	
5. Write a short note on limitations of relational algebra?	
6. Write about Joint Operation and Set operation?	
7. Discuss about Table Modification Commands?	
8. Write the steps to create a PL/SQL Program?	
SECTION-B	
II. Answer ALL the following Questions	5X8=40M
9. Define DBMS? Explain about components of Database Management S (OR)	ystem?
10. Give a brief account on types of Data Models?	
11. Explain in detail about building blocks of an ER Diagram?	
(OR)	. •
12. What is relationship Degree? Explain about Relationship Classification	on?
13. Explain in detail about CODD Rules?	
(OR)	
14. Explain a) Relational Calculus b) Tuple Relational Calculus 3) DRC?	
15. Explain DDL & DML commands in SQL with an example program?	
(OR)	
16. Give a brief account on Aggregate Functions?	
17. Explain Structure of PL/SQL?	
(OR)	
18. Define Trigger? Explain about various types of triggers?	

Room No: _ Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II BCA Max Marks: 75 Subject : Computer Science Pass Mark: 24 Title of Paper: Operating Systems Duration: 3 Hrs Paper Code : R20BCA303 : 2pm = 5pm Time W.E.F .: 2022-23 Date : 22-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X5 = 25M1. Explain about Storage Management? 2. Explain about Operating system services? 3. Explain about scheduling criteria? 4. What is Synchronization? Explain? 5. Explain Dead lock necessary condition? 6. Explain about swapping? 7. Explain about Demand paging? 8. Explain about Directory structure? SECTION-B II. Answer ALL the following Questions 5X10=50M 9. What is an Operating system? Explain functions of an operating system? (OR) 10. What is System call? Explain different types of system calls in Operating System? 11. Explain about Round-Robin Scheduling? (OR) 12. Explain about Priority Scheduling? 13. Explain methods for handling deadlocks? (OR) 14. Explain about deadlock detection and avoidance? 15. Explain the concept of FIFO Page Replacement? (OR) 16. Explain about contagious memory allocation? 17. Explain different File Access Methods? (OR) 18. Explain the features of UNIX operating system?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.Sc (MPCS, MECS, MSCS, MCCS, DS) /BCA/B.Voc (WT) Class Max Marks: 75 Subject : Computer Science Pass Mark: 30 Title of Paper: OOPs With Java Duration : 3 Hrs Paper Code : R20DSOJ301/R20WSPJ301/CBCSC301/ CBBCA301/DSOJ301/WSPJ301 : 2pm - 5pm Time W.E.F : 22-10-2024 : 2021-22 Date SECTION-A I. Answer any FIVE of the following Questions 5X5=25M 1. Explain java features. 2. Explain Java Tokens. 3. Explain Method Overloading. 4. Explain Vector Class. 5. Explain procedure to create and run applet. 6. Explain Life cycle of thread. 7. Explain thread priority. 8. Explain Wrapper classes. SECTION-B II. Answer ALL the following Questions 5X10=50M 9. Explain OOPS Concepts. (OR) 10. Explain java program structure and its compile and running the process. 11. Explain the concept of Constructors in java. (OR) 12. Explain Visibility Control in java. 13. Explain interface with an example. (OR) 14. Explain the process to create a package and how to add class to a package. 15. Explain user defined exception with an example program. (OR) 16. Explain multiple catch statements with example. 17. Explain the concept of applet life cycle (OR) 18. Write a program for getting input from user in applets.

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	ass	: II BCA Hono		g/8	Max Marks		
	bject	: Computer S			Pass Mark		
		: Data Analy			Duration		nπ
	(F)	: R23SDP302			Time Date	: 15.10.2	
w.	.E.F	: 2024-25	. 2	9	Date	. 19.10.2	
		11		SECTIO	N-A		Y
I.	Answer an	y <u>FIVE</u> of the	following Q				5X4=20M
		T (4000000000000000000000000000000000000		lain its applica	itions.		類
	Demic die	term ada ber	onco una omp	110 a.FF			
_	Dafina the	tarm Dia data	and evaluin	its characteris	etice		
4.	Denne une	term big data	and explain	its characteris	sucs.		
-21				-	÷		
3.	Write abou	ut Role's in Da	ta science Te	am.			
				•.	•		
4.	Define the	Data preproc	essing.				1.0
			1. 4				
5.	Explain al	bout the featur	e selection.				
6.	What are	the Association	n Rules?	4 (*)	¥1		
7.	Explain al	bout the Logis	tic Regression	1			
					*		
8.	Explain al	bout the Attrib	ute selection	•	W 7.		
							<i>E</i> 0
					S 5		
				SECTIO	N-B		*
II.	. Answer a	ny <u>THREE</u> of	the followin	g Questions			3X10=30M
9.	Explain a	bout the Big d	ata architect	ure.			
٠,	A 12 1		la af Data	santuia nuoisat			
10	. Explain	about the life	cycle of Data	centric project	.S.		
13	1. Write ab	out PCA (princ	iple of comp	onent of analys	sis)		
		about K-Mean					
12	e. explain	about K-Mean	a vikorimiii.		69		98
13	3. Explain	about the Dec	ision Tree cla	ssification.			
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Regd No Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks : 60 : II B.Com Hon(Computers) Class Pass Mark : 24 : Computer Subject Duration : 3Hrs Title of Paper: Digital Marketing : 2pm - 5pm Time Paper Code : R23BCOMP302 : 19.10.2024 Date W.E.F : 2024-25 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Write the Characteristics of Digital Marketing? 2. Write a short note on Technology behind Digital Marketing? 3. What is a landing page? Why it is important in Online Advertising Campaigns? 4. Write a short note on Online Advertising? 5. Explain about Email Marketing Tools? 6. Describe the Characteristics of Successful Social Media Marketer? 7. Describe the Process of SERP? 8. Define Off-Page Optimization? SECTION - B 5X8=40M II. Answer ALL of the following questions? 9. Explain differences between Traditional Marketing and Digital Marketing? (OR) 10. Discuss Various Digital Marketing Channels available in detail? 11. Analyze the impact of mobile devices on online advertising strategies? How have mobile trends influenced ad formats and targeting Methods? (OR) 12. Explain Advantages & Disadvantages of online advertising compared to traditional methods? 13. Describe the concept of email marketing and its significance in modern digital marketing strategies? (OR) 14. Evaluate the advantages and disadvantages of email marketing as a channel for reaching and engaging with target audiences. 15. Explain in detail about various tools available in social media marketing and explain their features? (OR) 16. Outline the key components of a comprehensive social media marketing plan and explain why each element is essential? 17. Compare and Contrast On-Page Optimization and Off-Page Optimization Techniques?

(OR)

18. Discuss the significance of SEO in modern digital marketing strategies?

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	III – SEMESTER END EXAMINA	TIONS	
Clas		Max Marks	: 60
Subj	ect : Computer Science of Paper: Python Programming for Data Analytics/	Pass Mark Duration	: 24 : 3 Hrs
A CONTRACTOR OF THE PARTY OF TH	r Code : R23DS301/R23MCSC302 Putton		: 2pm-5pm
W.E	F : 2024-25	Date	: 16-10-2024
	SECTION-A	8	
I. A	nswer any <u>FIVE</u> of the following Questions		5X4=20M
1. E	xplain about Features of Python.		
2. E	xplain about Variables and Identifiers in Python.		
3. W	rite about Tuples in Python.	•	x
4. E	xplain about packages in Python.		
5. E	xplain about classes and objects in Python.		
6. E	xplain about Numpy Basics Arrays.		•
7. W	rite about Pandas Dat a Frame basics.		
8. E	xplain about String Manipulation.		
1			
-			
	SECTION-B		
	SECTION-B		
II. A	SECTION-B Inswer ALL the following Questions		5 X8=40 M
		Python	5 X8=40M
	nswer <u>ALL</u> the following Questions	Python	5 X8=40M
9. E	nswer <u>ALL</u> the following Questions Explain about Conditional Statement (if, if-else, elip) in I	Python	5X8=40M
9. E	nswer <u>ALL</u> the following Questions Explain about Conditional Statement (if, if-else, elip) in I	Python	5X8=40M
9. E	nswer <u>ALL</u> the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python.	Python	5X8=40M
9. E 10. 11.	Inswer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions.	Python	5X8=40M
9. E 10. 11.	nswer <u>ALL</u> the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR)	Python	5X8=40M
9. E 10. 11.	nswer <u>ALL</u> the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python.	Python	5X8=40M
9. E 10. 11. 12. 13.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR)	Python	5X8=40M
9. E 10. 11. 12. 13.	nswer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python.	Python	5X8=40M
9. E 10. 11. 12. 13.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR) Explain about Exception handling in Python.	Python	5X8=40M
9. E 10. 11. 12. 13.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR) Explain about Exception handling in Python. Explain about Fancy Indexing, Sorting Array. (OR)	Python	5X8=40M
9. E 10. 11. 12. 13. 14. 15.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR) Explain about Exception handling in Python. Explain about Fancy Indexing, Sorting Array.	Python	5X8=40M
9. E 10. 11. 12. 13. 14. 15.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR) Explain about Exception handling in Python. Explain about Fancy Indexing, Sorting Array. (OR) Explain about Data Frames. Explain about Univariate Plots - Histograms.	Python	5X8=40M
9. E 10. 11. 12. 13. 14. 15.	Answer ALL the following Questions Explain about Conditional Statement (if, if-else, elip) in I (OR) Explain the operations on Strings in Python. Explain about LAMBDA Functions. (OR) Explain about Lists and Dictionaries in Python. Explain about Inheritance in Python. (OR) Explain about Exception handling in Python. Explain about Fancy Indexing, Sorting Array. (OR) Explain about Data Frames.		5X8=40M

Ro	om No: Regd No	_
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)	
	III – SEMESTER END EXAMINATIONS	
Cl	: II BCA Hon/B.Sc Hon(CS, Mat, Stat, Phy, Chem, Ele/B.Voc Hon(WT&SD)	
ř	Max Marks : 60	= }
	bject : Computer Science Pass Mark : 24	
Tit	le of Paper: Object Oriented Programming Through JAVA/OOPS Using Java Duration: 3Hrs	
ъ.	per Code : R23BCA303/R23CSC301/R23MCSC301/R23WT301 Time : Zpm-Spm	1
	E.F : 2024-25 Date : 21-10-24	
VV ,	E.P . 2024-20	
	SECTION-A	
T.	Answer any <u>FIVE</u> of the following Questions 5X4=20M	A
1.	Explain about the Benefits of OOPs?	
2.	Write a short note on JVM?	
3.	Write about Control Structures?	
	What is an Array? Write about One Dimensional Array?	
	Explain about the Abstract Methods and Classes?	
	Write a short note on Inheritance?	
	Explain about Thread Scheduling?	
	•	
8.	Write about HTML Applet Tag?	
	SECTION - B	
II.	Answer ALL of the following questions? 5X8 = 40M	
9.	Define and Differentiate Procedure Oriented Programming and Object Oriented	
	Programming?	
	(OR)	
10	Explain different types of Operators in JAVA?	
11	. Define Constructor? Explain different types of Constructors?	
	(OR)	
12	Explain in details about looping statements with an example program?	
	Explain about Method Overloading and Overriding with examples?	
	(OR)	
14	Give a brief account on Interface?	
15	Explain about the Thread Priority?	
	(OR)	
16	. Define Package? Explain how to create and access package?	
2011/1009	Explain Matsouries & Limitations of thron handling?	
18	Explain about Applet Life Cycle?	

Room No:		69		Regd No:
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ol HD Call	III - SEMESTER	R END EXA	MINATIONS Max Marks	
가는 100kg (1985년) 12 전	Honours (AI) ter Science		Pass Mark	
Title of Paper : Introduc	ction to OOP Using J	Java	Duration	: 3 Hrs
Paper Code : R23AI30			Time	: 2pm -5pm : 21-10-2024
W.E.F : 2024-25)	<u> </u>	Date ·	. 21-10-20-1
		SECTION	<u>I-A</u>	
I. Answer any <u>FIVE</u> of		stions		5X4=20
1. Define OOP? Write in	ts benefits.			
2. Explain about JVM.				
3. Difference between \	While and do While l	oop.	4	
4. What is an Array? E	xplain about types o	of Arrays.	9	
5. Write about Method	Overriding.		E N	
6. Explain about Abstr	act methods and Cla	asses.		
7. Write a short note of	n Java API Package.			
8. Explain HTML Apple	et Tag.			
The same of the sa				
		SECTIO	<u>N-B</u>	5X8=40
II. Answer the followi				3A8-40
9. Explain Features of	JAVA.			SI SI
	to the State State of Lebys a	(OR)		emilia de la composición dela composición de la composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composición dela compos
10. What is an OOP? I	Explain OOPs concer	ots.		
S				14 ···
11. Explain about Dec	ision-Making Statem		xample.	
		(OR)		
12. What is Construct	or? Explain types of	Constructor	rs with synta	ax and example.
13. Define Interface? I	Explain Extending ar	nd Impleme	nting Interfa	ces with example.
		(OR)		
14. What is an Inherit	ance? Write about ty	pes of Inhe	ritances in c	letail.
15. Explain about Thr	ead Scheduler.			
		(OR)		
16. What is a Package	2 How to create and	8 10 3	own packag	es?
10. What is a rackage	. How to create and			
17 Francis about Ans	olet Life Cycle			
17. Explain about App	net line Cycle.	(OR)	m .	
	.:			hods
18. What is an Except	ion? Explain about i	ехсерион н	andmig Met	nous.

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Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) **III - SEMESTER END EXAMINATIONS** Class : II B.Com Honours (Gen) Max Marks: 60 Subject : Computer Science Pass Mark: 24 Title of Paper: Social Media Marketing Duration : 3 Hrs Paper Code : R23MCSC303 Time : 2pm - 5pm W.E.F : 2024-25 Date : 21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Write any four features of Digital Marketing and explain it. 2. What are the 5D's of Digital Marketing? Explain it. 3. Define Budget. Explain it. 4. Explain about Web Marketing Architecture. 5. What is SERP? Explain it. 6. Write about best practices in Digital Advertisement. 7. What is E-Commerce? Explain it. 8. Define Automation in the context of Social Media. SECTION-B II. Answer ALL the following Questions 5X8=40M 9. What is Digital Marketing? Explain about features of Digital Marketing. 10. Write any eight advantages of Digital Marketing. 11. Describe the Strengths and Applications of Digital Marketing. (OR) 12. Explain about KPIs in Digital Marketing. **13.** What is SEO? Explain about SEO. (OR) 14. Discuss Google's guidelines for digital advertising. 15. Discuss the role of Online branding and Traffic building in Social Media. 16. List and explain the Do's and Dont's of Social Media. 17. Explain the process and benefits of consumer engagement on Social Media. (OR) 18. What is Social Media Analytics? Explain it.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (DS) Max Marks: 60 \$ubject : Computer Science Pass Mark: 24 Title of Paper: Web Technologies Duration : 3 Hrs Paper Code : R23DS303 Time : 2pm-5pm W.E.F : 2024-25 Date :21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Explain how to add images to your web page with examples. 2. Explain about hyperlinks in HTML with example. Explain about CSS ID and CLASS. 4. How to define own style in CSS. 5. How to declare variable in Java script with example. 6. Explain any 4 string functions in Java Script. 7. Explain about status bar. 8. Difference between XML and HTML. SECTION-B II. Answer ALL the following Questions 5X8=40M 9. Explain about different formatting tags in HTML. (OR) 10. Explain about types of Lists with example. 11. Explain about different types of CSS with examples. (OR) 12. Explain about formatting blocks of information in CSS. 13. Explain about operators in Java Script. (OR) 14. Explain about different Array functions in Java Script. 15. Write a code for Data validation in DHTML. (OR) 16. Explain about Roll over buttons with example. 17 Explain in detail about DOM. (OR) 18 Explain about different web services in XML.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 Class : II BCA Honours Pass Mark: 24 Subject : Computer Science Title of Paper: Database Management System Duration : 3 Hrs : 2pm - 5pm Time Paper Code : R23BCA301 W.E.F : 2024-25 Date : 19.10,2024 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Define DBMS. Explain it. 2. Write any four differences between Database and File System. 3. What is Primary Key? Explain it. 4. Explain about BCNF. 5. Define Inheritance. Explain it. 6. Explain about Generalization & Specialization. 7. Describe about Commit & Rollback. 8. Write about Triggers. SECTION-B 5X8=40M II. Answer ALL the following Questions Explain about Three tire Schema Architecture. (OR) 10. What is Database? Write the advantages and Disadvantages of Database System. 11. Explain about Codd's Rules. (OR) 12. Define Normalization. Explain about 1NF and 3NF. 13. What is DML? Explain about DML Commands. 14. Define Relationship. Explain about One to One and Many to Many Relationships. 15. Explain about different types of Joins in SQL with an example. (OR) **16.** Write about TCL and DCL Commands with Syntax and example. 17. What is an Exception? Explain about Exception Handling. (OR) 18. Explain about Function and Packages.

Room No: Regd No KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II BBA Hon(Business Analytics) Max Marks : 60 Subject : Computers Pass Mark : 24 Title of Paper: Data Base Management System Duration ` : 3Hrs : 2pm - 5pm Paper Code : R23BBACSC301 Time W.E.F : 19.10.2024 : 2024-25 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Write a short note on data and information? 2. Write about drawbacks of file based system? 3. Write about attribute classification? **4.** Explain the advantages of ER Modeling? 5. Explain about Functional Dependencies? 6. Write the advantages of Relational Data Model? 7. Write a short on Sub Query? 8. Explain the advantages of PL/SQL? SECTION - B II. Answer ALL of the following questions? 5X8=40M 9. Discuss about Classification of Database Management System? (OR) 10. Explain about types of Data Models? 11. Explain in detail about Specialization and Generalization? (OR) **12.** Draw the complete ER Diagram for an any organization? 13. Explain in detail about CODD Rules? (OR) 14. Give a brief account Relational Algebra? **15.** Explain about different types of commands in SQL? (OR) 16. Explain Aggregate Functions with an example Program? 17. Explain about Procedure and Functions of PL/SQL? (OR) 18. Explain about Structure of PL/SQL?

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Ro	om No:	Regd No	
	KAKARAPARTI BHAVANARAYANA CO	LLEGE (AUTONC	DMOUS)
	III – SEMESTER END EXAM	INATIONS	
Cla	ass : II B.Voc(IT,WT)	Max Marks	: 75
	bject : Computer Science	Pass Mark	: 30
	le of Paper : E-Commerce	Duration	: 3 Hrs
Pa	per Code : ITEC302/WSEC302/R20WSEC302	Time	:2pm-5pm
	E.F : 2023-24	Date	: 21-10-2024
	SECTION-A		EVE_OEM
I.	Answer any <u>FIVE</u> of the following Questions		5X5=25M
1.	Explain about E-Commerce and media convergence		
	Explain about financial EDI standards		
	Explain about virtual Organizational structure		
	Explain about different types of digital documents		
5.	Corporate data warehouses	system	
THE WAY S	Write about risk associated with electronic payment	System	
7.	Explain e payment system Explain Justin time manufacturing and quick respon	nse system	
٥.	SECTION-B		
TT	Answer ALL the following Questions		5X10=50M
	Explain types of E-commerce.		
	(OR)		
10	Explain the advantages and disadvantages of E-	commerce and it'	s framework .
1	. Explain about Financial EDI with it's types?		
	(OR)		
	11' situations of EDIO		
12	2. What are the advantages and limitations of EDI?		
1:	3. What is supply chain management explain its cha	racteristics?	
	(OR)		
1	4. Explain the functions of SCM.		
1	5. Explain push based and pull based advertising.		
	(OR)		
		porate digital libr	arv
1	6. Explain about core document management in cor	por are digital libit	шу.
1	7. Explain about electronic fund transfer		
	(OR)		
18	. Explain about e-cash, Smart card, Credit cards , I	Debit card?	

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II BCA Max Marks: 75 Subject : Computer Science Pass Mark: 30 Title of Paper: Object Oriented Programming Through Java Duration : 3 Hrs Paper Code : R20BCA302 Time W.E.F : 2021-22 Date 21/10/2021 SECTION-A I. Answer any FIVE of the following Questions 5X5=25M 1. Difference between OOP and Procedure Oriented Programming. 2. Explain Java Development Kit. 3. Explain different types of Arrays with example. 4. Explain different string functions in JAVA. 5. Explain Unchecked and Checked Exceptions. 6. Discuss about Thread Priorities. 7. Explain Serialization. 8. Explain advantages of Servlets. SECTION-B II. Answer ALL the following Questions 5X10=50M**9.** Explain different OOPS concepts. (OR) 10. Explain features of JAVA. 11. Explain different data types available in Java. (OR) 12. Explain control structures in Java. 13. Explain different Handling exceptions in Java. (OR) 14. What is Thread? Explain thread life cycle methods with example. 15. Explain HTML Applet Tag. (OR) 16. Explain JDBC Architecture. 17. Explain life-cycle of a servlet. (OR) 18. Explain RML Architecture.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.Sc Honours (DS) Max Marks: 60 Class Pass Mark: 24 : Computer Science Subject Title of Paper: Data Mining Techniques Using R Duration : 3 Hrs Time :2pm-5pm Paper Code : R23DS302 W.E.F Date : 2024-25 :17-10-2024 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. What is Datawarehouse? 2. Briefly explain stages of Data mining Process. **3.** What is Dimensionality reduction? **4.** Write a short note on Data Cleaning. Define Attribute-Oriented Induction(AOI). **6.** What is Tree Pruning? 7. Define Association Rule Mining. 8. Write about Hierarchal methods. SECTION-B 5X8=40M II. Answer any FIVE of the following Questions 9. What is Data Mining? Explain Data Mining Techniques. **10.** Write about Data Mining Knowledge Representation. Explain about Data Preprocessing. (OR) 12. Explain about the Integration of Data Mining System with a Data Warehouse 13. Explain Pattern-Growth Approach for mining Frequent Item sets. (OR) 14. Write about Apriori Algorithm? 15. Write about Tree pruning. (OR) 16. Explain about Decision Tree Induction Algorithm. 17. Write about DBSCAN Algorithm. (OR) **18.** Explain about Association rule Data mining?

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 Class : II BCA Honours Subject : Computer Science Pass Mark: 24 Title of Paper: Software Engineering Duration : 3 Hrs Paper Code : R23BCA304 Time : 2 pm . W.E.F : 2024-25 Date 18/10 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Define Software? What are the characteristics of Software. 2. Explain about waterfall Model. 3. Explain about Coordination and communication issues. 4. Write about DRE. 5. Explain about Risk Identification. **6.** Explain about Analysis Model. 7. Write about Testing Objectives. 8. Write about Path Testing. SECTION-B II. Answer ALL the following Questions 5X8 = 40M9. Explain about process Frame work. (OR) 10. Explain about spiral Model. 11. Explain about the software management spectrum. (OR) 12. Explain about size-oriented Metrics. 13. Explain about Decomposition Techniques. (OR) 14. Explain about COCOMO. **15.** Explain about cohesion and coupling. (OR) 16. Explore about Human computer Interface Design. 17. Explain about SQA plan. (OR) 18. Explain about white Box Testing.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 Class : II B.Sc Honours (Comp) Pass Mark: 24 : Computer Science Subject Duration : 3 Hrs Title of Paper: Computer Organization : 2PM - SPM Time Paper Code : R23CSC303 Date : 18 10 202 W.E.F : 2024-25 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. What is Computer Register? Explain it. 2. Explain about Instruction Cycle. 3. Define CPU. Explain it. **4.** Write a short note on Address Sequencing. **5.** Define Cache Memory. Explain it. 6. Write a short note on Address Mapping Using Pages. 7. Explain about DMA. 8. What is Parallel Processing? Explain it. SECTION-B 5X8=40M II. Answer ALL the following Questions 9. Explain about Register Transfer, Bus and Memory Transfers. (OR) 10. Explain in detail about Logic and Shift Micro Operations using Circuit Diagram and Functional table. 11. Write about Hard Wired Control and Micro Programmed Control. (OR) 12. Explain in detail about Instruction Formats of CPU. 13. Define Memory. Explain about Associative Memory and Main Memory. (OR) 14. Explain in detail about Memory Mapping and Concept of Virtual Memory. 15. What is Input-Output Processor? Explain about Input-Output Processor. (OR) 16. Explain about Programmed I/O and Priority Interrupt. 17. What is an Algorithm. Write an Algorithm for Addition with an example. (OR) 18. Explain about Arithmetic Pipeline and Instruction Pipeline.

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Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Com Honours (Comp) Max Marks: 60 : Computer Science Subject Pass Mark: 24 Title of Paper: E-commerce and Web Designing Duration : 3 Hrs Paper Code : R23BCOMP301 Time 2pm -W.E.F : 2024-25 Date 18/10/2026 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Explain about advantages of E-Commerce. **2.** Write a short note on Web 2.0 and its applications. **3.** Explain about B2C. **4.** Write a short note on Risk Management. 5. Explain about Compliance Management. **6.** What is Web? Explain its features. 7. What HTML? Write its features. 8. Explain CSS properties with examples SECTION-B II. Answer ALL the following Questions 5X8=40M **9.** Explain about business models associated with E-Commerce. 10. What is E-Commerce? Explain about 5C Business Model. 11. Explain about CRM and its features. 12. Explain about B2B Software system. **13.** Explain briefly the concept of cyber money. 14. Explain about various electronic payment models available. **15.** What is Tag? Explain about different types of Tags with example. (OR) **16.** Explain about html elements and attributes. 17. Explain about different types of selector in CSS. (OR) 18. Explain about CSS Box Model.

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Ro	om No:			Regd No:
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Ai	III – SEMESTE	K END I	Max Marks	
Total Control	ass : II BCA bject : Computer Science		Pass Mark	
	le of Paper: Object Oriented Programming Throug	h Java	Duration	
	per Code : R20BCA302A			:2pm-Spm
	E.F : 2023-24			: 21-10-2024
	SECTI	NOT THE RESIDENCE OF THE PARTY		F774_007F
Section 1	Answer any <u>FIVE</u> of the following Questio Explain Java Development Kit	ns		5X4=20M
2.	Difference between Applications and Applets	s		
3.	Explain different string functions in Java			
4.	Explain procedure to create user defined pa	ckages i	n Jaya	
5.	Discuss about thread priorities.			
6.	Explain thread synchronization .			
7.	Explain Random access files.			
8.	Explain advantages of servlets.			
	SECTI	ON-B		
	Answer <u>ALL</u> the following Questions Explain features of Java			5X8=40M
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element T				
10	Explain Structure of Java			
11	. Explain different operators available in Jav	7a,		
	(0)	R)		
12	. Explain control structures in Java			
13	. Explain different Handling exceptions in J	ava		
	(0)			
14	. Explain Thread life cycle methods with exa	ширіс.		
15	. Explain JDBC Architecture			
	(0)	R)		
16	. Explain Life cycle of Applets in detail.			
			d see	
4	Fundin DMI Architecture			
11	. Explain RMI Architecture.			
	(O)	R)		
18	. Explain Networking classes in JDK			

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	ND EXAMINATIONS Max Marks	: 60
Class : II B.Sc Honours (AI)	Pass Mark	The second
Subject : Computer Science Title of Paper : Operating Systems	Duration	: 3 Hrs
Paper Code : R23AI302	Time	: 2 pm - 5 pm
W.E.F : 2024-25	Date	: 19.10.2024
	SECTION-A	
I. Answer any <u>FIVE</u> of the following Question	ons	5X4=20M
1. Explain the Evaluation of Operating System	1?	
2. What are the different operations that can b	oe done by the Operat	ing Systems?
3. Explain Process Control Block.		
4. What is Thread? Explain types of Threads.	Α.	
5. Write about Contiguous Allocation.		
6. Explain about Echo Statement.		
7. Write the advantages of Memory concept.	*	
8. Explain about Command line arguments.		
8. Explain about Command fine arguments.		*
	SECTION-B	
II. Answer the following Questions9. Explain Functions of Operating Systems.	SECTION-D	5X8=40M
5. Explain Functions of operating systems.	(OB)	
	(OR)	
10. What is Operating System? Explain Opera	ating System Services	The second secon
	× = = = =	
11. What is Process? Explain Preemptive Sch	eduling Algorithms.	
11. What is Flocess: Explain Flocingave con		
	(OR)	
12. Explain about Critical Section Problem.		. 4
10 Mart is Doging Styplein Demand Paging		
13. What is Paging? Explain Demand Paging.		
	(OR)	
14. Explain about Page Replacement Algorith	ms.	
CII		
15. Explain about Architecture of Unix.	N 19	
	(OR)	
16. Write about any five Unix commands.		
10. Which about any min the	15	
17. Explain about if statement with example.	l e	
	(OR)	
18. Explain about While statement with exan	nple programs	
16. Explain about while statement what exam	-L- L- Orania,	

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Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Hon (CS) /B.Voc Hon (WT) Max Marks: 60 Subject : Computer Science Pass Mark: 24 Title of Paper: Operating System Duration: 3 Hrs : R23CSC304/R23WT303 Paper Code Time : 2pm - 5pm W.E.F : 2024-25 Date : 19.10.2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Define OS? Write its objectives and functions. 2. Explain about Process Abstraction. 3. What is a Thread? Explain. 4. Explain necessary conditions for Dead lock occurrence. 5. Write about Semaphores. 6. Explain about Virtual Memory. 7. Difference between Physical address space and Virtual address space. 8. Explain about pipes. SECTION-B II. Answer the following Questions 5X8=40M Explain Functions of Operating Systems. (OR) 10. What is an Operating System? Explain different types of Operating System. 11. Explain about different System calls in detail. (OR) 12. What is Scheduling? Explain Non-Preemptive Scheduling Algorithms. 13. Explain Process Synchronization problems. (OR) 14. Define Dead lock? Write about Deadlock Prevention Techniques. 15. Explain about Memory allocation Strategies. (OR) **16.** What is Paging? Explain briefly. 17. Explain about Disk Scheduling Algorithms. (OR) 18. What is a File? Explain different File Allocation Methods.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Com (Comp) Max Marks: 75 : Computer Science Subject Pass Mark: 30 Title of Paper: Programming With C & C++ Duration : 3 Hrs Paper Code : R20COMC303 :2pm-Spm : 22-10-2024 W.E.F : 2021-22 Date SECTION-A I. Answer any FIVE of the following Questions 5X5 = 25M1. Explain about different Data types in C language. 2. Explain the difference between while and do-while. 3. What is recursion? Explain with example. 4. Explain different types of arrays with syntax. 5. Explain difference between C and C++. 6. Explain the concept of Function over loading. 7. Explain different rules of Operator Overloading. 8. Explain different Access Specifies. SECTION-B II. Answer ALL the following Questions 5X10=50M 9. Explain different operators available in C. (OR) 10. Explain different decision making statements. 11. Write different string functions with examples. (OR) **12.** Explain different types of Function in C language. 13. Explain the concept of OOPS. (OR) **14.** Explain the structure of C++. **15.** Define Constructor? Explain types of Constructors with examples. (OR) **16.** Explain briefly about operator overloading with example. 17. Explain different types of Inheritance with examples? (OR) 18. Write the advantages and disadvantages of Inheritance?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.Sc (IOT), B.Voc (IT) Class Max Marks: 75 Subject : Computer Science Pass Mark: 30 Title of Paper: OOPs With Python/Python Programming Duration : 3 Hrs :2pm-5pm Paper Code : R20IOTOP301/IOTOP301/ITPP301 Time W.E.F : 2019-20 :22-10-2024 Date SECTION-A I. Answer any FIVE of the following Questions 5X5 = 25M1. Write the features of Python. 2. Explain Python path setting. 3. Explain Lists in Python. 4. Explain Tuples in Python. 5. Explain Functions in Python. 6. Discuss Modules in Python. 7. Explain files in Python. **8.** Explain Search function in Python. SECTION-B II. Answer ALL the following Questions 5X10=50M 9. Explain different Operators in Python. (OR) 10. Explain Conditional Statements in Python. 11. Explain different Methods of Sets with example. (OR) 12. Explain different Methods of Dictionary's with example. 13. Explain different types of functions with example. (OR) 14. Explain different types of Packages with example. 15. Explain Exception Handling in Python. (OR) **16.** Explain Reading and Writing data in to files in Python. 17. Explain OOPS concepts in Python. (OR) 18. Explain about Threads and Multithreading in Python.

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		Pass Mark		
		Duration	: 3 Hrs	4
		Time	: 2pm, -	-spm
W	V.E.F : 2023-24	Date	: 23/1	0/2024.
	SECTION-A	A		
I.	Answer any FIVE of the following Questions			5X4=20M
1.	. Explain Difference between Angular JS and Angular 2.			
2.	Explain about Angular 2 components.			
3.	Explain about Styling angular2 components.			
4.	Discuss about Two way data binding in angular2.	i P		
5.	Explain about Class binding in angular2.			
	Briefly explain about Interfaces in Angular2.			
	Explain about custom pipes in Angular2.			
8.	Discuss about Error Handling in Angular2.			
	SECTION-1	В		
	I. Answer ALL the following Questions			5X8=40M
9.	Explain about Angular2 Modules.			
	(OR)			
10	• Explain about Angular2 Architecture.			
13	1. Explain about angular 2 Nested components.			
	(OR)			
	2. Explain Angular component input properties and out	tnut proper	ties : :	
	Explain Angular component input properties and out	tput proper	ucs.	
13	3. Explain about Style Binding in Angular 2.		10 to	
	(OR)			
14	4. Explain Event binding.			
7.	.5. Discuss about Angular 2 templates.			
Τ,				
	(OR)			
16	6. Explain Angular interpolation.			
17	7. Discuss about Angular2 Routing.			
	(OR)			
TS	8. Explain about Dependency injection in Angular2.			

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Ko	om No: KAKARAPARTI BHAVANARAYANA (COLLEGE (AU	그 그 그 그 가지 않는데 이렇게 되었다면 하지 않는데 하게 되었다면 하는데
	III - SEMESTER END EX	AMINATIONS	
Cla	: II B.Voc Honours (SD)	Max Marks	100000000000000000000000000000000000000
	bject : Computer Science	Pass Mark	
	e of Paper : Angular JS	Duration Time	: 3 Hrs : 2pm -5pm
	per Code : R23WT304 E.F : 2024-25	Date	: 18/10/2024
w.	E.F : 2024-25		1811012029
	SECTION	ON-A	
I 1.	Answer any <u>FIVE</u> of the following Questions What is Java script? Explain its Advantages.		5X4=20M
	Explain about JSON.		
3.	Explain about objects in Java Script.	, d	
4.	Differentiate between Java script and angular JS.	2	*
5.	Differentiate between if and if else statements in J	ava Script.	
	List out basic Directives of Angular JS.	*	
	Explain about the text area elements.		
8.	How do you handle form submissions in Angular	JS.	
	SECTION	ON-R	
II. 9.	Answer ALL the following Questions Explain about Data types in Java Script.	ON-D	5X8=40M
	(OŘ)		
10	. Explain about operators available in Java Script.		
11	What is a loop? Explain the looping statements a	vailable in Jav	a script.
	(OR)		
12	Explain in detail about Java script operators.	1	
13	Explain about Angular expressions.		
	(OR)		12 × 1
14	4. Explain about Angular JS Modules.		
15	5. Explain about Built – in Directives in Angular JS	3.	
ASSESS	(OR)		
16	6. Explain about ng- click Directives in Angular JS		
5 640			
1'	7. Explain about Validation forms. (OR)		
18	8. Explain about Form element.		

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) computer science III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.Sc. Honours /BCA Honours Class Pass Mark: 24 : Computer Science Subject Title of Paper: Data Structures/Data Structures Using C Duration : 3 Hrs : 2pm - 5 pm : R23BCA302/R23CSC302 Time Paper Code Date W.E.F : 2024-25 : 17-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Explain about ADT. 2. Explain about Time complexity. 3. Explain about the types of Linked List. 4. Explain about operations of Linked List. 5. Write about the advantages of Stack Data structures. Explain about Bubble sort. 7. Write about the Tree terminology. **8.** Explain Applications of Graphs. SECTION-B II. Answer ALL the following Questions 5X8=40M Explain about Data Structures Operations. (OR) 10. Explain about classifications of Data Structures. 11. Explain about Circular Linked List. 12. Write a program to implement Single Linked List. 13. Write a program to implement Stack operations using Array concept (OR) 14. Explain about Queue and its operations. 15. Explain about Binary Search. (OR) 16. Explain about Merge Sort. 17. Explain about the BFS. (OR) **18.** Explain about the DFS.

Ro	om No:	Regd No:
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTO	
Su	III - SEMESTER END EXAMINATIONS ass : II B.Com Hon (Gen, TP, Comp) BBA Hon, BBA Hon(BA), B.Sc Hon bject : Commerce le of Paper : Project Management	Max Marks : 50 Pass Mark : 20 Duration : 2 Hrs
	per Code : R23SDP301	Time :2pm-4pm
W.	E.F : 2024-25	Date :15-10.2024
	SECTION-A	
I.	Answer any <u>FOUR</u> of the following Questions	4X5=20M
1.	Need for project management.	
2.	Role of project manager	9
3.	Process of project identification.	
4.	Sources of new project ideas	
5.	What is network analysis	
6.	Need for project planning.	
7.	Project break even point	
8.	Process of project planning	
	SECTION-B	
II.	Answer any THREE of the following Questions	3X10=30M
9.	Explain the essential elements of project management.	
10	Discuss the types project.	
11	. What is Finance. Explain the scope of financial feasibility.	
12	. What is project evaluation. Explain various types of evaluation	
13	Define project delay. What causes a project to get delayed	
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Room No:		Regd No
KAKARAPARTI BHAVANA	RAYANA COLLE	GE (AUTONOMOUS)
III – SEMESTEI	END EXAMINA	TIONS
Class : II BBA Honours	Max Mark	s : 60
Subject : Commerce	Pass Mar	k : 24
Title of Paper: Business Laws	Duration	
Paper Code : R23BBA301	Time	: 2 pm - 5 pm
W.E.F : 2024-25	Date	: 16-10-2024
1	SECTION-A	
I. Answer any <u>FIVE</u> of the following Questio	ns	5X12=60M
	×	
1. Define contracts. Explain various types of contr	acts.	
	(OR)	
	(014)	
2. What are the various modes of discharge of con-	tracts.	
3. Define negotiable instruments. Explain various	kinds of negotiable	e instruments.
		2
	(OR)	
	11	
4. What is partnership firm? Discuss various right	ts and duties of par	rtners
5. Define Company. Explain the types of companie		
o. Define company. Explain the types of company	,3	
, v	(OR)	
	*	
6. Discuss various types of meetings and resolution	ns under compani	es act 2013.
7. What are the essentials of contract of sale and	explain various kin	ds of goods.
	(OR)	
2	(OZ)	• 🗷
8. Differentiate between implied conditions and im	plied warranties.	
•		16
9. What is the digital signature. Explain the legal a	spects regarding d	igital signature
2000 17 2000		
	(OR)	
consumer		
10. Write an essay on protection councils.	ž.	*
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Room No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

Class : II B.Com Honours (Gen TP, Comp) Max Marks : 60

Subject : Commerce Pass Mark : 24

Title of Paper : Advanced Accounting Duration : 3 Hrs

Title of Paper: Advanced Accounting

Paper Code: R23COM301

W.E.F: 2024-25

Duration: 3 Hrs

Time: 2Pm-5Pm

Date: 16-10-2024

SECTION-A

I. Answer ALL the following Questions

5X12=60M

1. Define Non-Profit Organization? Explain different types of Non-Profit Organizations?

(OR)

2. From the following Receipts and Payments Account prepare final Accounts of a sports club for the year ending 31-3-2018:

Receipts and Payments Account

Receipts	Rs.	Payments	Rs.
To Subscriptions	15,000	By Land	10,000
To Donations	50,000	By Buildings	40,000
To Legacies	10,000	By Furniture	10,000
To Entrance Fees	5,000	By Sports Materials	5,000 .
To Life Membership Fees	3,000	By Sports Expenditure	6,000
To Sports Income	17,000	By General Expenses	1,000
To Sundries	5,000	By Magazines	1,500
To Sale of Old Papers	500	By Ground Expenses	4,000
10 0000 01 010 10 10 10 10 10 10 10 10 1		By Balance c/d	28,000
	1,05,500		1,05,500

Half of the donations, legacies, entrance fees and life membership fee are to be capitalized. Subscriptions still outstanding is **Rs.** 5,000. Depreciate fixed asset by 5% and sports material by 10%.

3. Explain single entry system? And it's disadvantages?

(OR)

4. Mohan has not maintained proper books of accounts. He furnished the following information before you. Prepare necessary statements for the year ending 31.3.2008 and find out the profit or loss.

Particulars	1.4.2020	31.3.2021
Cash in hand	5,000	6,000
Bank overdraft	45,000	40,000
Stock	60,000	62,000
Creditors	38,600	37,200
Debtors	30,000	32,000
Bills receivable	40,000	38,000
Bills payable	60,000	57,000
Buildings	50,000	50,000
Furniture	5,000	5,000

His drawings during the year Rs. 750 per month. Depreciation on buildings at 5%, on furniture at 10%, reserve for doubtful debts at 5% on sundry debtors.

- 91
- 5. What is the difference between Hire purchase system and Instalment purchase system?
- 6. Lodhi Singh purchased a machine on Hire purchase system. The total cash price of the machine is Rs. 31,960. Payable Rs. 8,000 down payment and three installments of Rs. 12,000, Rs. 10,000 and Rs. 4,000 payable at the end of the first, second and third year respectively. Interest is charged at 5% p.a. Charge depreciation on straight line method. Pass necessary journal entries and give necessary ledger account in the books of Lodhi Singh.
- 7. Explain partnership? Features of Partnership?

OR)

8. The Balance Sheet of A and B as on 31.12.2019 is given below who share profits and losses in the ratio of 2:1.

Liabilities	Rs.	Assets	Rs.
A's Capital	45,000	Furniture	6,000
B's Capital	25,000	Freehold property	20,000
General reserve	24,000	Debtors	60,000
Creditors	16,000	Stock'	12,000
		Cash	12,000
	1,10,000		1,10,000

They agreed to admit 'C' into the firm on the following terms:

- A) 50% of the general reserve is to remain as provision for doubtful debts.
- B) 'C' will bring in Rs. 21,000 of which Rs. 9,000 will be treated as his share of goodwill to be retained in the business.
- C) Closing stock is to be valued at Rs. 10,500.
- D) 'C' is entitled to one -fourth share of the profit.
- E) Depreciation is to be provided in furniture @5%.

Prepare necessary ledger accounts a balance sheet of new firm.

9. What is dissolution of a firm? State how and under what circumstance a firm may be dissolved?

(OR)

10. Anil, Balu, Chandra and Dasu are in Partnership and they decided to dissolve the partnership on 31st December 2015. When their balance sheet showed as under.

Liabilities	Rs.	Assets	Rs.
Creditors	76,000	Cash in hand	4,000
Bills Payable	76,000	Cash at bank	20,000
Capital Accounts:	4	Land & Buildings	1,80,000
Anil	80,000	Capital Accounts:	
Balu	40,000	Chandra	48,000
		Dasu	20,000
	2,72,000		2,72,000

The assets realized Land and Buildings Rs. 2,20,000. Goodwill Rs. 40,000. The expenses of realization amounted to Rs. 8,000. 'Chandra' has become insolvent and Nothing was realized from his estate. Show realization and capital accounts of partners.

Regd No Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II BBA Hon(Business Analytics) Max Marks : 60 Class Pass Mark : 24 : Commerce & Management Subject Title of Paper: Accounting For Managers Duration : 3Hrs : 2pm-5pm : R23BBBA301 Time Paper Code : 16-10-2024 Date $\cdot 2024 - 25$ W.E.F SECTION-A

I. Answer any FIVE of the following Questions

5X12=60M

1. What is Accounting? Explain the Accounting Conventions?

(OR

- 2. Prepare general journal entries for the following transactions of a business called Pose for Pics in 2020
 - **Aug. 1:** Hashim Khan, the owner, invested Rs. 57,500 cash and Rs. 32,500 of photography equipment in the business.
 - 04: Paid Rs. 3,000 cash for an insurance policy covering the next 24 months.
 - 07: Services are performed and clients are billed for Rs. 10,000.
 - 13: Purchased office supplies for Rs. 1,400. Cash paid Rs. 400 and remaining outstanding.
 - 20: Received Rs. 2,000 cash in photography fees earned previously.
 - **24:** The client immediately pays Rs. 15,000 for services to be performed at a later date.
 - 29: In addition, the business acquires photography equipment. The purchase price is Rs.100,000, pays Rs. 25,000 cash and signs a note for the balance.
- 3. What is a Subsidiary Book? Explain various types of Subsidiary Books?

(OK)

- 4. From the following particulars make cash book of Ghulam Fatima Trading Co. for the month of November, 2020:
 - 1 Cash balance (Cr) Rs. 2,000; Bank balance Rs. 40,000.
 - 4 Cash sales Rs. 3,700; Credit sales Rs. 1,800 would be received at near future.
 - 6 Paid Ahmed & Bros.by cash Rs. 500; Received cash by debtors Rs. 1,800.
 - 12 Paid to vendor by means of check worth Rs. 2,700.
 - 13 Paid Utility bills in cash Rs. 250; Bought goods by check Rs. 750
 - 19 Drew from Bank for office use Rs. 160; Personal withdrawal of cash Rs. 1,000.
 - 20 Received a check from Hamid Rs. 2,700 and deposited into the bank.
 - 21 Received by check from Munir Rs. 1,360; Discount Rs. 140 (not deposited).
 - 25 Cash sales Rs. 2,100; Paid wages by bank Rs. 1,500.
 - 28 Deposited Munir's check into bank.
 - 29 Payment by check to Anees for Rs. 175; Discount received Rs. 25.
 - 30 Munir's check has been dishonored and return by bank.
- 5. Describe the importance of Suspense Account in Rectification of Errors?

(OR)

6. There are several Mistakes in the Umer & Brothers (Pvt.) Ltd. Trial Balance. You are requested to identify Errors and make corrected Trial Balance?

SNo	Heads of Account	Ref	Debit	Credit
1	Umer Owner Equity		Dobit	
2	Umer Drawings		560	1,551
.3	Equipment's		2,850	
4	Sales		2,630	- 2.052
5	Due from Customers			2,850
6	Purchases		1260	530
7	Purchase Returns		364	
8	Bank Loan		304	005
9	Creditors		528	996
10	Taxes		720	
11	Cash In Hand		226	
12	Note Payable		680 .	
13	Inventory	•.	000 .	
14	Repair		461	264
15	Return Inward		461	
	Total		D- 7640	98
	1000		Rs.7649	Rs.6289

7. Explain the reasons for the difference between cash book and pass book balances?

(OR)

- **8.** From the following particulars, you are required to find out the errors in cash book and bank statement by using missing method and prepare Bank Reconciliation Statement as on 31-12-2020, for Chand Bibi Ltd:
 - i Bank balance overdraft as per cash book 80,000
 - ii Check recorded for collection but not sent to the bank10,000
 - iii Credit side of the cash book cast short ... 1,000
 - iv Premium on proprietor's Life Insurance Policy (LIP) paid on standing order5,000
 - ▼ Bank Charges recorded twice in the cash book100
 - vi Customer's check returned by the bank as dishonored ... 4,000
 - vii Bill Receivable collected by the bank directly on the behalf of company20,000
 - viii Check received entered twice in the cash book6,000
 - ix Check issued but dishonoured on technical grounds 3,000
 - A checks deposited into the bank of worth Rs. 45,000 but Rs. 8,000 check was not collected by bank
- 9. What is Final Accounts? Explain its Objectives?

(OR)

The following are the balances of Ashok Kumar as on 30th June 2019:

Debit	Rs.	Credit	Rs
Cash in Hand	540	Sales	98,780
Cash at Bank	2,630	Returns Outward	500
Purchases	40,675	Capital	62,000
Returns Inward	680	Sundry Creditors	6,300
wages	8,480	Rent	9,000
Fuel and Power	4,730		
Carriage on Sales	3200		
Carriage on Purchases	2040		
Stock	5760		
Buildings	22,000		
Freehold land	10,000		2
Machinery	20,000		
Investment	10,000		
Patents	7,500		
Salaries	15,000		
General Expenses	3,000		
Insurance	600		
Drawings	5,245	,	
Sundry Debtors	14,500		

Taking into account the following adjustments Prepare the trading and Profit & loss account and Balance Sheet as on 30th June 2023

- 1. Stock on Hand on 30th June 2023 is Rs.6,800
- 2. Machinery is to be Depreciated @ 10% and Patents @20%
- 3. Salaries for the month June 2023 amounting to Rs.1,500 were unpaid
- 4. Insurance includes the premium of Rs.170 on a policy expiring on 31st December 2023.
- 5. Bad Debts are Rs.725.
- 6. Rent received in advance Rs.1000
- 7. Interest on investment of Rs.2,000 is accrued.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS III - SEMESTER END EXAMINATIONS Class : II B.Com (Gen, TP, Comp & Log) BBA, BCA Max Marks: 50 Subject : Commerce Pass Mark: 20 Title of Paper: Retailing Duration : 2 Hrs Paper Code : R20SDC302B Time : 2pm - 4 pm W.E.F : 2022-23 Date :16-10-2024 SECTION-A I. Answer any FOUR of the following Questions 4X5=20M 1. Explanation about Retailing 2. Growth of Retailing 3. Store Location 4. Stores Deign 5. Human resource in retailing 6. Services to Customers 7. Objectives of Retailing 8. Sales Promotion SECTION-B II. Answer any THREE of the following Questions 3X10=30M 9. Briefly explain Role of Retailing 10. Explain the various Types of Retailing 11. How different factors influencing selection of Location 12. Explain different Types of retail outlets 13. Briefly explain visual merchandising activities

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R	oom No: Regd No
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III – SEMESTER END EXAMINATIONS
Si Ti Pa	ass : II BBA Honours Max Marks : 60 ubject : Commerce & Management Pass Mark : 24 tle of Paper : Organisational Behaviour Duration : 3Hrs aper Code : R23BBA302 Time : 2pm - 5pm E.F : 2024-25 Date : 17-10-2024
	SECTION-A
ı.	Answer any FIVE of the following Questions 5X12=60M
1	What is Perception? Describe the Process Perception?
	(OR)
2.	What is meant by Organizational Behaviour? Explain the factors influencing the
	Organizational Behaviour?
3.	What do you mean by Group Dynamics? Write the stages in Formation of Groups?
	(OR)
4.	Describe the application of Transactional Analysis and Johari Window?
5.	What is Leadership? Explain different styles of Leadership?
	(OR)
6.	Briefly explain the impact of Leadership on effectiveness of Groups?
7.	What is a Change? Discuss the factors driving the Organisational Change?
	(OR)
8.	Explain the significance and process of Organizational Development?
9.	Distinguish between organizational Culture and Organizational Climate?
	(OR)

10. What do you mean by Organizational Effectiveness? Explain the indicators of

Organizational Effectiveness?

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.Com Honours (Gen, Comp) Class Pass Mark: 24 Subject : Commerce Duration : 3 Hrs Title of Paper: Income Tax : 2pm - 5pm Paper Code : R23COM302 Time Date : 17-10-2024 W.E.F : 2024-25 SECTION-A 5X12=60M I. Answer ALL the following Questions 1. Write any 10 Exempted incomes u/s 10 2. Mr. Aleph joy furnishes the following details for his income for the previous year 2023-24. Rs.19,000. i) Income accrued in America but received in India ii) Interest on U.K Govt securities 1/3 rd of which received in India, Rs. 15,000 Rs.28,000. iii) Salary income received in India for services rendered In Germany iv) Income from Agriculture in Bangladesh received and spent there only Rs.16,000. v) Income from profession in China received there. The Profession was set up in India Rs.12,000. Rs.14,000 vi) Income accrued in India but received in China vii) Income earned outside India in preceding years but remitted in India during previous Rs.36,000. year viii) Gift in foreign Currency from a relative received in India Rs. 10,000 Compute the total Income of Aleph Joy for the A.Y: 2024-2025 If he is 2) Not ordinarily Resident and 3) Non-Resident 1) Resident 3. What is perquisite & Explain various types of perquisites? 4. Mr. Joy Kireet, working in ABC Company Pvt Ltd., Bangalore has furnished the following details of his income for the year 2022-23. Compute his income from Salary for the A-Y: 2024-25 a) Basic Salary Rs.40,000. b) Dearness Allowance enters into all retirement benefits Rs. 24,000 c) Fixed percentage of Commission on Sales Rs.15,000 P.M. d) Bonus Rs.65,000. e) HRA Rs. 12,500 P.M (Rent paid Rs.10,600 PM) f) Transport Allowance & 4,000 P.M g) Reimbursement of Medical Expenses Rs.2500 for treatment taken in private Hospital. h) Children Education allowance Rs. 600.P.M. per child for two children and children hostel allowance Rs. 1000 P.M for two children. 5. Explain the Revenue and Capital Nature of Incomes and Expenses? (OR) 6. Mrs. Sushma (Resident) owns two houses in Bangalore, she has letout both the houses throughout the year for residential purpose

	HOUSE-I	HOUSE-II 78
Muncipal Value	4,00,000	12,00,000
Fair Rental Value	7,20,000	7,20,000
Rent Received	4,80,000	8,00,000
Standard Rent	6,00,000	6,00,000
Reparis	72,000	1,00,000
Muncipal Tax paid	40,000	120,000
Insurance Premium paid	48,000	70,500

On 1st April 2023, she bought residential House for self occupation for Rs. 10,00,000 by taking a housing loan in Canara Bank.

Loan amount was Rs. 7,00,000 and rate of interest 12% P.A. Compute taxable income from House property for the Assessment year 2024-25.

7. What is capital Asset? Explain the types of Capital Assets?

(OR)

8. From the following incomes of Mr. Kireet (Resident) for the year ended 31-3-2023 Compute his income from other sources-

1)	Directors fee	Rs.	10,000
2)	Interest on Bank deposits	Rs.	3,000
3)	Income from undisclosed sources	Rs.	12,000
4)	Winnings floor lotteries (Net)	Rs.	28,000
5)	Royalty on Book written	Rs.	8,000
	Income from lectures delivered	Rs.	5,000
7)	Interest on loan given to relative .	Rs.	7,000
0.00	Interest on tax free debentures of a Company	(Net)	Rs.3,600
200	Interest on SBI A/c (Savings Bank)	Rs.	

9. Explain the deduction u/s 80G?

1) Rent Received P.M

(OR)

Rs. 9,000

10. Kishore gives the following information of his income for the P.Y. 2023-24. Compute total taxable income for the AY 2024-25.

2) Income from Business	Rs. 2,00,000
3) Income from Salary	Rs 4,10,000
4) Income from other sources	Rs.1,02,000
He makes payments towards	
(a) Life insurance premium	Rs.25000
(b) Donation to P.M Relief fund	Rs.15,000
(c) Interest on Education loan on his son	Rs.8,500
(d) Medical insurance premium on his health	Rs.12,000

III - SEMESTER END EXAMINATIONS

: II B.Com Hon(TP) Max Marks

Subject : Commerce Pass Mark : 40

Title of Paper: Income Tax-II Duration : 3Hrs

Paper Code : R23COMT302 Time : 2pm-5pm W.E.F : 2024-25 Date : 17-10-2024

SECTION-A

I. Answer ALL of the following questions

Class

5X12=60M

1. Explain Admissible and Inadmissible expenses.

(OR)

2. The following is the P&L A /c of Mr. Ranjith for the year ending 31st March 2022.

Particulars	Rs.	Particulars	Rs.
To Salaries	1,65,000	By Gross Profit	2,50,000
To Office expenses	18,000	By Bad debts recovered	10,000
To Depreciation	14,000	By Dividend	3,000
To GST	9,000	By Commission	10,000
To Legal expenses	8,000	By Rent of house property	9,000
To Income Tax	7,000	By Brokerage	10,000
To Patents purchased (1/8th)	12,000	By Sundry receipts	5,000
To Repairs	6,000	By Share of income from HUF	3,000
To Donation	2,000		
To Provision for bad debts	3,000	The street of the state of the state of	araby by the
To General expenses	12,000		
To Net Profit	44,000	¥ *****	
	3,00,000		3,00,000

Additional information:

- a. Salary includes Rs.6,000 paid to workers employed at home.
- b. Legal expenses includes Rs.1,000 paid to the advocate in connection with personal case.
- c. General expenses includes Rs.4,000 as contributed to staff welfare fund.
- d. Out of the bad debts recovered only Rs.4,000 were allowed as deduction earlier. Compute his income from business for the assessment year 2022 23.
- 3. Explain about Cost of improvement and Cost of Acquisition.

(OR)

4. Mr. Prasanna sold his residential house on 1 - 1 - 2022 for Rs.35,06,000 which he had purchased in 2001 02 for Rs.2,00,000. He spent Rs.6,000 for sale of the house. He also spent Rs. 1,50,000 on the construction of new house and deposited Rs. 1,00,000 under capital gains account scheme on 28 - 3 - 2022. The CII for 2001 - 02 and 2021 - 22 are 100 and 317 respectively. Compute taxable capital gains for the Assessment year 2022 - 23.

[P.T.O]

5. Explain Deduction U/S 57.

(OR)

- 6. Mr. Rahul investments during the year ended 31 3 2022 consisted of the following.
 - a. Rs. 25,000, 9% Govt. securities.
 - b. Rs. 20,000, 11% Delhi Corporation Bonds.
 - c Rs. 30,000, 12% Bombay Port Trust Bonds.
 - d. Rs. 5,000, 7 year PO National Savings Certificates.
 - e. Rs. 10,000, 7% National Plan Certificates.
- f. Rs. 15,000, 8% Govt. of England bonds.
- g. He paid Rs.150 as commission for collecting the interest income.
- h. SBI savings bank interest in Rs.19,500.

 Compute his taxable income from other sources.
- 7. Explain about Deemed Incomes.

(OR)

- 8. Following are the details of Mr. Sharath for the previous year 2021 22
 - i. Gross salary Rs.5,54,000.
 - ii. Income from house property (Computed) Rs. 72,000
 - iii. Income from business (Computed) Rs. 3,37,000.
 - iv. Income form profession of consulting (Computed) Rs.1,18,000
 - v. Short term capital gain on sale of Jewellery Rs.57,000
 - vi. Short term capital gain on sale of shares Rs.49,000 (Not subject to STT)
 - vii. Long term capital gain on sale of land Rs. 1,33,000.
 - viii. Income from other sources (including lottery winnings of Rs. 1,00,000 Net)
 - Rs. 1,79,000 the PY 2021 22 he had paid an advance tax of Rs.49,000 and tax was deducted at source from lottery winnings at the rate of 30%.
 - Compute the total income of Mr. Sharath for the assessment year 2022 23 if he is a resident aged about 58 years, under existing tax regime and alternative tax regime.
- 9. Explain provisions laid down in IT Act in regard set off and carry forward losses.

(OR)

10. Write about set off and carry forward losses.

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R	oom No: Regd No:
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
	III - SEMESTER END EXAMINATIONS
	ass : II BBA Honours (Analytics) Max Marks : 60
	abject : Commerce Pass Mark : 24
	tle of Paper: Human Resource Management per Code: R23BBBA302 Time: 2pm-5pm
	per Code : R23BBBA302 Time : 29m-59m E.F : 2024-25 Date : 17-10-2024
	Date .1(-(6-2624
	SECTION-A
	Anguar AII the following Overtions
٠.	Answer ALL the following Questions 5X12=60M
1.	Define Human Resource Management and explain its characteristics.
	(OR)
_	
2.	Explain the functions of Human Resource Management.
3.	Explain the need, importance and objectives of HRP.
	(OR)
4.	Explain the pre requisites for successful Human Resource planning.
5	What is Recruitment? Explain the factors Governing Recruitment.
٠.	what is rectalated. Daplatt the lactors doverning rectalation.
	(OR)
_	
6.	What is meant by selections? Explain the steps involved in selection process.
7.	Define Training and explain methods of training.
	_ onno realizada or produce or decimals.
	(OR)
_	
8.	What are the differences between training and development.
9.	What is meant by compensation Management? Explain the components of compensation.
	(OR)
4.0	D.C
10	Define performance Appraisal and explain the process of performance Appraisal.
12	

Room No: Regd No KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Com Hon(General, TP) Max Marks : 60 Subject : Commerce Pass Mark : 24 Title of Paper: Business Laws Duration : 3Hrs Paper Code : R23COM303 Time : 2pm - 5pm W.E.F : 2024-25 Date SECTION-A I. Answer any ALL of the following Questions 5X12=60M 1. Explain essential elements of valid contracts. (OR) 2. Discuss about Indian contract Act, 1872. 3. Define valid offer. Explain the essential elements of a valid offer. (OR) 4. What is Acceptance. Explain the essential elements of Acceptance. 5. What are the rules regarding minor's agreement. (OR) 6. Explain the rules regarding contingent contracts. 7. Explain the rights of an unpaid vendor under the sale of goods act. (OR) 8. Write an essay on consumer protection councils. 9. What are the legal aspects regarding digital signature. (OR) 10. Explain the need and objectives of the information technology Act, 2000.

Ro	om No:	10-	Regd No:	
	KAKARAPARTI BHAVANARAYANA C		CONOMOU	S)
CI	III - SEMESTER END EXA		. 60	ा
	ass : II B.Com Honours (Gen, TP) bject : Commerce	Max Marks Pass Mark		
	le of Paper : Banking Theory And Practice	Duration		
	per Code : R23COM304		: 2pm-5	pm
W.	E.F : 2024-25	Date	: 19.10.20	1
T	SECTIO Answer ALL the following Questions	<u>N-A</u>		EW10-60M
	Define Bank and explain kinds of Banks.			5X12=60M
	(OR)	165		<i>∞</i> *
_	English about the Country C	×		
2.	Explain about the functions of commercial banks.			
		3	38	
	10			2 2
3.	Explain functions of unit banking and branch bank	ing.		¥ 4
	(OR)			
4.	Explain about internet banking – ATMS – RTGS - N	רדיר		
	sapara about internet building Tilling Tilling	DI I.		
5.	Explain advantages and disadvantages of Indigenou	is Banking.		W-714
	(OR)	*		, 3 7 7
	(a l
6.	Explain about the functions of NABARD.			
			19	84
	*		- "	ar i
7.	Explain special relationship between Banker and Ci	ustomer.	• •	3.
1	• ***			
	(OR)			
Q	Define banker and customer and explain types of cu	astomoro		
٥.	Define banker and edstomer and explain types of et	astomers.		
	±			
9.	Explain the duties and responsibilities of collecting	banker.		v
	(OP)			
	(OR)		ű.	
10	Explain about the payment Gateways.	å.		-
	·		20	
	9 1		•	
	an and an		15.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 1	

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Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II BCA Class Pass Mark: 24 : Commerce Subject Title of Paper: Accounting and Financial Management Duration: 3 Hrs :2pm-5pm Time Paper Code : R20BCA301A : 19.10.2024 Date W.E.F : 2023-24 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Scope of Accounting 2. Purpose of Balance sheet 3. Objectives of Ratio Analysis 4. Elements of Cost 5. Purpose of Budget 6. Debtor's Ledger 7. Marshalling of balance sheet 8. Break Even Analysis SECTION-B 5X8=40M II. Answer ALL the following Questions 9. Jeyaseeli is a sole proprietor having a provisions store. Following are the transactions during the month of January, 2023. Journalise them. Rs. Jan. 80,000 1 Commenced business with cash 40,000 2 Deposited cash with bank 5,000 3 Purchased goods by paying cash 4 Purchased goods from Lipton & Co. on credit 10,000 11,000 5 Sold goods to Joy and received cash 5,000 6 Paid salaries by cash 7 Paid Lipton & Co. by cheque for the purchases made on 4th Jan. 4,000 8 Bought furniture by cash 1,000 9 Paid electricity charges by cash 10 Bank paid insurance premium on furniture as per standing instructions 300 (OR) 10. What is Accounting? Explain the objects and limitations of accounting? 11. Draw the formats of profit and loss account and balance sheet? (OR) 12. What is a Financial Statement? Describe the objectives for preparation of financial Statement? 13. Describe the importance of cash flow statement? 14. The following is the summary of cash transactions of Anju Ltd. For the year ended March 31st 2022 [P.T.O]

Receipts	Rs	Payments	Rs
Balance as on 01.04.2021	150	Payment to creditors	6,000
Issue of Equity shares	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN	Purchase of fixed assets	600
Receipts from customers	8,400	Expenses	600
Sale of fixed assets	300	Wages and salaries	300
		Tax	750
		Dividends	150
The second secon		Repayment of bank loan	900
		Balance as on 31.3.2022	450
	9,750		9,750

You are required to prepare a cash flow statement for the year ended March 31.2022 in accordance with AS-3(revised) using Direct Method.

15. Prepare a Cost sheet in the book of M.B. Rahman from the following particulars

Opening Stock:-	Raw Material = Rs, 5000
	Finishing Goods =Rs.4000
Closing Stock: -	Raw material=Rs.4000
	Finishing Goods =Rs.5000
	Raw material Purchased=Rs.50,000
	Wages paid to Labourers =Rs.20,000
	Chargeable Expenses = Rs.2000
	Rent and taxes =Rs. 7,400
	Power =Rs.3000
	Experimental expense = Rs.600
	sale of wastage of material =Rs.200
	Management Salary = Rs. 4,000
	office printing and Stationery =Rs.200
	Salaries to sales man =Rs.2000
	Commission to Travelling agents =Rs.1000
	Sales =Rs.1,00,000

(OR)

- 16. Explain different types of Cost Centres?
- 17. Discuss in brief the classification of budgets?

(OR)

18. Distinguish between Shares and debentures?

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

Max Marks: 75

: II B.Com (Gen, TP, Comp, Log) Class

Pass Mark: 30 : Commerce Subject Duration : 3 Hrs

Title of Paper: Advanced Accounting : 2pm - 5pm Time Paper Code : R20COM301 : 19.10.2024 Date -: 2022-23 W.E.F

SECTION-A

I. Answer any FIVE of the following Questions

5X5=25M

- 1. Explain the features of single entry system.
- 2. Write the features of hire purchase system.
- 3. Explain about partnership deed.
- 4. Garner V₈ murray case
- 5. Distinguish between fixed and fluctuating capital accounts.
- 6. Explain the types of good will.
- 7. Write short note on Incomes and expenditure account.
- 8. Write about dissolution of partnership.

SECTION-B

5X10=50M

II. Answer any FIVE of the following Questions 9. Differences between Receipts and Payments account and Income and expenditure account.

(OR)

10. From the following details prepare Receipts and Payments account.

Opening cash in hand (1.1.04) 500 4800 Opening bank balance (1.1.04) 11000 Subscriptions collected 1000 Entrance fee received 3000 Salary paid 1200 Rent paid 2000 Furniture purchased 3000 Tournament expenses 1500 Entertainment expenses 1200 Periodicals 300 Miscellaneous expenses Cash in hand at cost (31.12.01) 800

11. Explain the advantages and limitations of single entry system.

(OR)

12. A trader his book by the single entry method his position on 31.12.2019 was as Following

Particulars	2019 Rs	2020 Rs
Cash at bank	9,000	12,000
Stock	60,000	75,000
Machinery	1,50,000	1,35,000
Debtors	90,000	1,35,000
Creditors	69,000	75,000

During the year trader Introduced 30000 as future capital in the business and withdraw 900/- per month from the above you are required to ascertain the profit or loss made by the traders for the year ended 31.12.2020.

- 13. Explain the differences between hire purchase system and Installment purchase system.
- (OR)

 14. On 01.01.2006 a mini bus was purchased on to hire purchase system for 160000 Rs. 40000 was paid on signing the agreement and the balance by three installments of 50000 each to be paid on last day of a each year.

 Depreciation is to be charged at 10% on the diminishing balance method prepare necessary ledger account in the books of hire purchaser and vendor.
- 15. Explain the features of Partnership.
- (OR)

 Anubha and Kajal are partners of a firm sharing profits & losses in the ratio of 2:1
 Their capital were Rs. 90000 and Rs. 60000. The Profit during the year were Rs. 45000.
 According to partnership deed both partners are allowed salary Rs. 700 per month to Anubha and Rs 500 per month to Kajal. Interest allowed on capital @ 5% P.A.
 The drawings at the end of the period were Rs. 8500 for Anubha and Rs. 6500 for Kajal. Interest is to be charged @ 5% P.A on drawings prepare partners capital accounts assuming that the capital account are fluctuating.
- 17. What are the adjustments that are needed in the books of accounts at the time of admission of a partner.
- (OR)

 The balance sheet of A & B on 31.12.2020 is given below. They share profits & loss in the ratio of 2:1

Liabilities	Rs	Assets	Rs
A - Capital	40,000	Building	20,000
B - Capital	30,000	Furniture	6,000
General Reserve	24,000	Stock	12,000
Creditors	16,000	Debtors	60,000
		Cash	12,000
	1,10,000		1,10,000

They agreed to admit C into the firm on the term

- (i) 'C' will being 12000/- towards capital and 9000 towards good will.
- (ii) 'C' will be given 1/4th share in profit.
- (iii) Depreciation of furniture is provided 5%.
- (iv) Stock is to be revalued Rs. 10500
 Give necessary ledger account & balance sheet of new firm.

F				-80	
F	Room No:			Regd No:	
	K	AKARAPARTI BHAVANAR	RAYANA COLLE	GE (AUTONOMOU	JS)
0	lass : II	III - Semeste i BBA	R END EXAMIN Max Mark		
S	ubject : Co	ommerce	Pass Mark		
T	itle of Paper : Or	ganisation Behaviour	Duration	: 3 Hrs	
V	aper Code : R2 I.E.F : 20	0BBA301A 22-23		: 2pm-5pm	
F.	7.15.1	22-23	Date	:19-10-2024	
		<u>s</u>	ECTION-A		
I.	Answer any <u>FIV</u> . Models of OB.	E of the following Questi	ons		5X4=20M
	. Define Values a				
3	Define Perception	on?			
4	. Define Leadersl	nip and its Styles?			
5	Define Organiza	ational Change and its Type	es?		
15 15		he formation of Attitude?			
	Define Group a				
1					
3	Define Organiza	ational Development and its			
TT.	Answer All the	SI e following Questions	ECTION-B		
9.	Explain about C	Challenges and Opportuniti	es of OB2		5X8=40M
		S PP	is of OB.		
		Kalifornia de la composición del la composición del composición de la composición del composición del composición de la composición del composición del composición del composición del composición dela composición del composición del composición del composición del	. (OR)		
10	. Explain about	role of Manager in OB?			
11	Discuss about	Herzberg's Two-Factor The	ory of Motivation	1?	
			(OR)		
	D:				
12	Discuss about	Mc.Gregor Theory X and Tl	neory Y of Motiva	ation?	
13	Discuss about	Various theories of Learnin	g?		
			(OR)		
14	Explain about t	he Process of Perception?			
19.	Discuss in deta	il about Johari Window?			
			(OR)		
16	D: 1				
10.	Discuss about v	various theories of Leadersh	nip?		
17.	Explain the feat	ures of Organizational Cul	ture?		
			(OR)		
18.	Explain about v	arious types of Organizatio	nal Conflicts?		

		- P		Regd 1	No:
Ro	om No: _	7.7 A	KARAPARTI BHAVANARAYANA CO		
		K.A	III - SEMESTER END EXA	MINATIONS	
CL	200	: II BCA	III - 55M25 12M 2M2	Max Marks	: 75
	ss bject	: Comm	erce	Pass Mark	
Tit	le of Paner		iting and Financial Management	Duration	: 3 Hrs
	per Code		A301	Time	:2pm-5pm
	E.F	: 2021-2		Date	: 19.10.2024
	24.24				
			SECTION-A		
	Answer ar				5X5=25M
1.	Debtor's l	edger and	creditor's ledger.		
2.	What are	the types	of cash book?		
			ncial statements.		
	Format of				
	Objectives		Analysis.		图 数 3 亿 图 3
	Elements				
7.	Meaning	of Shares	and debentures.		
8.	Explain E	Break ever			
			SECTION-B		
II.	Answer A	ALL the fe	ollowing Questions		5X10=50M
9.	Journa	tul.2012 January			
		Data	Particulars	<u>. p</u>	
- dire	The state of the s	Date 2 Jan, 2	Started a business with Cash Rs. 10	0.00.000	
i de la	2012	04	Purchases goods from Paul Rs. 2,00	0.000	
		06	Sold Goods for cash Rs. 30,000		
		08	Goods purchased for cash Rs. 1,00,	000	
		10	Goods sold to Amrutha Rs. 80,000		
		12	Cash Deposit into bank Rs. 50,00,0	000	
		14	Land sold for Cash Rs. 1,50,00,000		
		16	Rent paid to Mahesh Rs. 5,00,000		
		10	(OR)		
				1. 1	· · ·
10	. Write t	he causes	s for disagreement of cash book balan	ice with baian	ce as per pass book.
130			1 ' 1'	for the list of Di	rect and Indirect
11			expenses and indirect expenses specif	fy the list of Di	rect and Indirect
11		ne Direct e nses.		fy the list of Di	rect and Indirect
11			expenses and indirect expenses specif	fy the list of Di	rect and Indirect
11	Expe	nses.		fy the list of Di	rect and Indirect
	Expe	nses.	(OR)	fy the list of Di	rect and Indirect
	Expe	nses. the Blue	(OR) Print of P & L account & B/S.		rect and Indirect
12	Expe	nses. the Blue	(OR) Print of P & L account & B/S. eaning importance of cash flow states		rect and Indirect
12	Expe 2. Draw 3. Expl	nses. the Blue ain the m	(OR) Print of P & L account & B/S.	ment.	rect and Indirect

(P.T.O)

Explain the Different types of Cost Centres.

(OR

Prepare a cost sheet for a CMR furniture company for the financial year ending March 31, 2019. With the following information you have to prepare a cost sheet statement.

Direct material consumed - \$12,000
Opening stock of raw materials - \$130,000
Closing stock of raw materials – \$8,000
Direct wages - \$50,000
Factory overhead is 100% of direct wages
Office and administration overhead is 20% of works
Selling and distribution overhead – \$25,000
Cost of opening stock for finished goods - \$10,000
Cost of closing stock for finished goods - \$15,000
Profit on cost is 20%

What is budget? Explain steps in preparation of Budget.

(OR)

B. Explain marginal cost? Explain advantages of marginal costing.

K	om No:		(A) (A)		Kega no	
		KAKARAPARTI BHAVAN				
٠.		III – SEMEST				
	ass	: II B.Com Honours (Com	ıp)	Max Marks		*
	bject	: Commerce		Pass Mark Duration		
		: Change Management : R23MCOM301		Time	:2pm-5p	m . I s
	E.F	: 2024-25		Date	: 21-10-20	
VV .	.E.F	. 2024-25			. 2,-,0-20	- 1
	5.	2	SECTION-A	58		
I.	Answer Al	LL the following Question		-		5X12=60M
1.	What is th	e meant by strategies for	Change Man	agement?		
			(07)			
		8 g 8	(OR)		3	
2.	Write the i	mplications of Change to	Organisation	is?		
		b		2		
						*
		1 1100	•,			
3.	What are t	the different types of chan	ges.			
			(OR)			*
			,,			
4.	Write abou	ut Organisational Performa	ance Change			
		\$	*			
5.	What are t	the absorbing changes in t	he Organisa	tions?		
	-13th					Marie Salar
	2.2	2	(OR)	197		
6	How we Fe	stablishing a new direction	as for the Or	ganisational	Change?	
υ.	HOW WE ES	stablishing a new direction	is for the or	gamsadonar	Change.	
	12 =					
7.	How to ma	anaging work stress for en	hancing emp	oloyee produ	ctivity?	75 29
			(OR)			
				*		
8.	Write the	special features of new Tec	chnology Cha	ange.		
		50 80	1			
		s				2 9
9.	What is th	e significance of Organisa	tional Develo	pment?		
				-		E)
			(OR)			
11	Write ob	out concept of Sensitivity	Training	E 8		40
	• WITH abl	out concept of bensitivity	mannig.			
				X		
						2 0 E
					44	
	8		8			
			- AP	30		

III - SEMESTER END EXAMINATIONS

Class

Room No:

: II BBA Honours

Max Marks : 60

: Commerce & Management

Pass Mark : 24

Subject

Title of Paper: Business Statistics & Mathematics

Duration

: 3 Hrs

Paper Code : R23BBA304

Time

:2pm-5pm

W.E.F

: 2024-25

Date

:19.10.2024

SECTION-A

I. Answer ALL of the following Questions

5X12=60M

1. Describe the various methods of collecting Primary Data.

(OR)

2. Construct Bar-Diagram from the following data

Years	2017	2018	2019	2020	2021	2022	2023
No. of persons	3	16	22	35	24	15	2

3. Calculate the Mean for the following data

C.I	0 - 8	8 -16	16 – 24	24 – 32	32 – 40	40 – 48
Frequency	8	7	16	24	15	7

(OR)

4. Calculate the Standard Deviation for the following table giving the age distribution of 542 members.

Age in years	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80	80 – 90
No. of members	3	61	132	153	140	51	2

5. Calculate Karl Pearson's Correlation Co efficient between X and Y for the

following data.

X	1	3	4	5	7	8	10
Y	2	6	8	10	14	16	20

(OR)

6. Obtain the two regression equations from the following data.

X	6	2	10	4	8
Y	9	11	5	8	7

7. Explain about different types of Sets.

(OR)

8. If $A = \{1,2,3,5\}$, $B = \{2,3,4,6\}$ and $C = \{1,2,4,5,7\}$, then prove that

- (i) $(A \cup B) \cup C = A \cup (B \cup C)$
- $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$ (ii)
- (iii) $(A \cap B) \cap C = A \cap (B \cap C)$
- 9. Define and explain the different types of matrices.

(OR)

10. If
$$A = \begin{bmatrix} 1 & 2 & -3 \\ 6 & 0 & 3 \\ 2 & -1 & 1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 4 & -1 & 3 \\ 6 & 3 & 10 \\ 2 & 0 & 3 \end{bmatrix}$ then find AB and BA.

		1.7	
Ro	om No:		Regd No:
	KAKARAPARTI BHAVANARAYANA		TONOMOUS)
	III - SEMESTER END E	XAMINATIONS	
Cl	ass : II BBA Honours	Max Marks	
	bject : Commerce	Pass Mark	
	le of Paper : Business Environment	Duration	: 3 Hrs
Pa	per Code : R23BBA303	Time	2 pm - 5pm
W	E.F : 2024-25	Date	18/10/2024
	W		
		YON-A	- TT-10 - COTE
I.	Answer ALL the following Questions	1 NT - 1	5X12=60M
1.	Define Business Environment and explain conce	pt and Nature of	Business Environment.
		OD	
		OR)	
_	Discuss the Salient features of Indian Economy	and its evalution	in the recent years
4.	Discuss the Salient leatures of mulan Economy	and its evolution	in the recent years.
	*	5.	
3.	Explain draft licensing frame work for AP's unde	r FEMA.	9 8 S
٠.	Larpiani di dici ilogioni gi ilogio (vota e e e e e e e e e e e e e e e e e e e		
		OR)	
4.	Explain the structure of NITI Ayog and Discuss a	about planning o	commission Vs NITI Ayog
			*
		:	
5.	Discuss about the problems faced by MSME sect	tor.	
	, see	OR)	
	, r	OK)	
6	Explain the Government policy initiative and cur	rrent schemes as	vailable for MSME
٥.	development.		
	40.000		
			• •
7.	What is meant by BOP? Explain various compon	ents and elemer	nts of BOP.
		OR)	
8.	Define Foreign exchange control and explain ma	in reasons for to	reign exchange control.
	. 13		
٥	Explain the significance of International busines	s environment	
7.	Explain the digilineance of international business	Olivii Oliillollo.	
		OR)	
		\$	
10	o. Discuss about the need for FDI in developing c	ountries.	
	- v		

Regd No: Room No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS

: II B.Com (Gen, TP, Comp, Log) Class

Max Marks: 60

: Commerce Subject

Pass Mark: 24

Title of Paper: Business Statistics : R20COM302A

Duration : 3 Hrs

Paper Code

Time

:2pm-5pm

WE.F : 2022-23 Date

:21-10-2024

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions

5X4=20M

1. Explain the meaning and definition of Statistics.

- 2. Explain the importance of Statistics.
- 3. What is Geometric mean in Statistics.
- 4. What is mode in Statistics.
- 5. What do you mean by Dispersion.
- 6. What is Skewness.
- 7. What is correlation? Explain its uses.
- 8. What is probable error.

SECTION-B

5X8=40M

II. Answer ALL the following Questions

9. Explain the characteristics of Statistics.

Prepare a Histogram from the following data.

Marks	0 - 20	20 – 40	40 - 60	60 - 80	80 - 100
No. of students	20	50	90	38	15

11. Explain the qualities of a good average.

(OR)

(OR)

12. Calculate mean from the following data.

X	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
F	2	4	6	. 8	10	12

13. What are various measures of Dispersion.

(OR)

14. Calculate standard derivation and Co-efficient of variation.

X	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
F	1	4	17	45	26	5	2

15. Explain various measures of Skewness.

(OR)

16. Calculate Karl pearson's Co-efficient of Skewness

Incomes	20	30	40	50	60	70
No. of People	8	12	20	10	6	4

17. Explain various types of correlations.

(OR)

18. From the following data Calculate Karlpearson's Co-efficient of correlation

X	65	66	67	67	68	69	71	73
Y	37	68	64	68	72	70	69	70

Regd No_ Room No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

: II B.Com (Gen, Tp, Log, Comp) Class

Max Marks : 75 Pass Mark : 30

: Commerce Subject

: 3Hrs Duration

Title of Paper: Business Statistics

Paper Code : R20COM302

Time

: 2022-23 W.E.F

: 2pm - 5pm : 21-10-2024 Date

SECTION-A

I. Answer any FIVE of the following Questions

5X5=25M

1. Explain the Characteristics of Statistics

- 2. Explain the Importance of Statistics
- 3. What is Median in Statistics
- 4. What is Geometric Mean in Statistics
- 5. What do you mean by Range
- 6. Explain different types of Skewness
- 7. What is Kurtosis
- 8. Explain various Types of Correlation.

SECTION-B

5X10=50M

II. Answer ALL the following Questions

9. What are the Advantages and Limitations of Statistics?

. (OR)

10. Construct Simple bar diagram from the following data

Year	2012	2013	2014	2015	2016	2017
Exports	20	15	13	14	22	10

11. Explain the qualities of a good average.

(OR)

12. calculate mean for Wages.

Wages in Rs.	0-10	10-20	20- 30	30-40	40-50	50-60	60 - 70	70 -80
F	5	10	20	40	30	20	10	4

13. Write about Various Measures of dispersion.

(OR)

14. Calculate Standard Deviation and Co-efficient of Variation

Age in Years	20-30	30-40	40-50	50-60	60-70	70-80	80-90
F	3	61	132	153	140	51	2

15. Explain various measures of Skewness

(OR)

16. Calculate Karl pearson Co-efficient of Skewness

Wages	0-10	10.00	100 00	I aa				
		10-20	20-30	30- 40	40-50	50- 60	60-70	70- 80
F	5	9	Q	10		Sec.		
				12	10	4	3	2
							9	Z

17. Write about various measures of Correlation

(OR)

18. From the following data compute Karl pearson's Co-efficient of Correlation

X	48	35	17	23	· 47
Y	45	20	40	25	45

Room No:	1/0.
	Regd No: YANA COLLEGE (AUTONOMOUS)
III - SEMESTER F	END EXAMINATIONS
Class : II B.Com (TP)	Max Marks: 75
Subject : Commerce	Pass Mark : 30
Title of Paper: Indian Banking System	Duration : 3 Hrs
Paper Code : R20COMT303	Time :2pm-5pm
W.E.F : 2019-20	Date : 22 -10-2024
SECT	TON-A
I. Answer any <u>FIVE</u> of the following Question	
1. Investment Banking.	ns 5X5=25M
2. CRR.	
3. Offshore Banking.	
4. Unit Banking.	
5. KYC Norms.	
6. NABARD.	
7. Repo rate.	
8. Anywhere Banking.	
• • • • • • • • • • • • • • • • • • •	
SEC.	TION-B
II. Answer ALL the following Questions	
9. Define Bank Explain Functions of Comme	rcial Banks
	(OR)
Explain in detail the concept of Nationaliza	ation of Banks.
Explain the functions of RBI.	
	(OR)
Explain credit control measures of RBI.	
3 What is mean by E-Banking explain inno	
3 What is mean by E-Banking explain inno	vations in Banking.
	(OR)
4. Explain the importance of Venture capita	1
Define Brach Banking and Explain merits	s and demerits of Branch Banking system.
	(OR)
Explain the Functions of NABARD.	
Explain the ranedolis of NADARD.	
7. Define paying banker and explain respon	sibilities of paying hanker
S Paul in 1:00	(OR)
Explain different types of customers.	

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Re	gd No:	Room	No:
	KAKARAPARTI BHAVANARAYANA C	OLLEGE (AUTONOMO	US)
	III SEMESTER END EXA	MINATIONS	
Su Tit Pa	lass: II B.Com (General) Libject: Commerce tle of Paper: Marketing Aper Code: R20COMG303 LE.F: 2021-22	Max Marks Pass Mark Duration Paper Time Date	
	SECTION - A	<u>V</u>	
I. A	Answer any <u>FIVE</u> Of the following questions.		5X5=25M
	Marketing environment.		
	Market Segmentation.		
	Packaging.		
	Penetration Pricing.		
	Promotion Mix.		·
	Concepts of Marketing.		
	Labelling.		
	Online Marketing.		
	SECTION -B		
II.	. Answer ALL the following Questions		5X10=50M
9.	What do you meant by Marketing & Explain v	rarious marketing cond	epts?
	(OR)		
10-		Conne	
11.	Explain various stages in Buying Decision Pro	ocess?	
	(OR)		
12.	What are the types of Market Segmentation?	to a la Dandard I in O	1-0
13		teps in Product Life Cy	cie?
	(OR)	CT -1 -111	
14.			
15		n?	
	(OR)		
16	Explain about various price strategies?	3	
17.			
	(OR)		
18.	Explain global marketing features?		

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Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Com (TP) Max Marks: 60 Subject : Commerce Pass Mark: 24 Title of Paper: Indian Banking System Duration: 3Hrs Paper Code : R20COMT303A Time :2pm - 5pm W.E.F : 22-10-2024 : 2022-2023 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Credit creation 2. Investment banking 3. Reverse Repo Rate 4. Debit card 5. NEFT 6. Money Lenders 7. Indigenous bankers 8. KyC Norms SECTION-B II. Answer ALL the following Questions 5X8=40M 9. What are the trends in commercial banking in India? (OR) 10. What are the advantages and disadvantages of unit banking 11. Explain about credit control measures (OR) 12. Define RBI and explain its organizational structure 13. What is electronic banking and explain it's advantages and limitations (OR) 14. Explain various services of mobile barking 15. Define SIDBI and explain it's functions (OR) 16. Define NABARD. Explain it's role and functions 17. Explain various types of customers (OR) 18. What are the duties and responsibilities of collecting bankers.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

III - SEMESTER END EXAMINATIONS

Max Marks: 60

: II BBA Class : Commerce Subject

Pass Mark: 24 : 3 Hrs Duration

Title of Paper: Financial Management Paper Code : R20BBA303A

:2pm - 5pm Time

: 22-10-2024 Date : 2022-23 W.E.F

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

1. Nature of Financial Management.

2. NPV Vs IRR.

- 3. Sources of Working Capital.
- 4. Financial Leverage.
- 5. Significance of Dividend.
- 6. Cash Management.
- 7. Traditional Approach.
- 8. Determinants of Dividend Policy.

SECTION-B

II. Answer ALL the following Questions

5X8=40M

9. Explain the Goals of Financial Management?

(OR)

- 10. Explain the Functions of Financial Management?
- 11. Explain the types of Capital Budgeting?

(OR)

12. Examine the following project proposals evaluate them based on Net present value at 10% for both Projects:

Initial investment is Rs.10,00,000/- each of the proposals

Project -A	Project-B	Present Values @10%
		0.909
		0.826
	A CONTRACTOR OF THE PROPERTY O	0.751
		0.683
	Project -A 6,00,000 2,00,000 2,00,000 3,00,000	6,00,000 2,00,000 2,00,000 2,00,000 2,00,000 7,00,000

13. Describe the determinants of Working Capital?

(OR)

14. Management of XY Ltd. Seeks your assistance on assessing the working capital requirements for an activity level of 1,00,000 units of output for the year 2021. The cost details of the product are as follows:

Particulars	Cost Per Unit (₹.)
Raw materials	20
Direct Labour	5
Overheads	15
Total cost	40
profit	10
selling price	50

The other details are:

- a) In order to ensure smooth flow of Production two months raw materials inventory is to be held in the stores.
- b) Finished goods remain in stores for one month.
- c) Credit allowed for purchase of raw material is one month.
- d) Credit allowed to customers is two months
- e) Cash balance to be maintained is ₹. 25,000.
- f) Assuming that the product process is uninterrupted and even during the year. Lag in payment of overheads 1 month.

Compute the amount of Working Capital required for the given level of activity.

15. Explain the Types of Cost of Capital?

(OR)

16. The existing Capital structure od XYZ Ltd, is as follows:

Equity Shares of ₹.100 each 40,00,000 Retained earnings

10,00,000 9% preference shares 25,00,000

Company earns a return of 12% and tax on income is 35%

The company wants to raise ₹. 25,00,000 for its expansion project for which it is considering following alternatives.

- i) Issue of 20,000 equity shares at a premium of ₹.25 per share.
- ii) Issue 10% preference shares.
- iii) Issue 9% debentures.

Projected that P/E Ratio in case of equity, Preference and Debenture financing 20, 17 and 16 respectively.

Which alternative would you consider to be the best? Give reasons for your choice.

17. Explain the Approaches of Dividend Policy?

(OR)

18. Given the following information about ABC Limited, show the effect of the dividend Policy on the market price of its shares, Using Walter's model:

Equity Capitalization Rate (Ke) 12% Earnings Per Share (E) ₹. 8

Assumed returns on investment (r) are as follows: 1) R=15% 2) R= 10%

Show the effect of the different dividend policies on the share value of the firm, when dividend Pay-out Ratio is 25%

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS : II B.A Honours (PS) Max Marks: 60 Class Pass Mark: 24 Subject : Politics Title of Paper: Indian Federal System Duration : 3 Hrs : 2pm-5pm Paper Code : R23PS304 Time Date ` : 19.10.2024 W.E.F 2024-25

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Centre State Administrative relations.
- 2. M.M. Punchi Commission recommendations.
- 3. Election reforms.
- 4. Anti Defection law.
- 5. Ashok Mehata committee recommendations.
- 6. Functions of Rural Government.
- 7. Democratic Decentralization.
- 8. 73rd Constitutional Amendment Act.

SECTION-B

II. Answer any FIVE of the following Questions

5X8=40M

- 9. Explain about Features of Indian Federal system.
- 10. Describe the financial relations between Central and State Governments.
- 11. Explain about Emerging Trends in Central State relations.
- 12. Write about the recommendations of Sarkaria Commission.
- 13. Write an essay on powers and functions of election commission of India.
- 14. Explain the Determinants of voting behaviour.
- 15. Explain about Balwanta Rai Mehata Committee recommendations.
- 16. Explain the powers and functions of Urban Governments.
- 17. Explain about 74th constitutions Amendment Act.
- 18. Explain about challenges of Rural Government.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks: 60 : II B.A Honours (PS) Class Pass Mark: 24 : Politics Subject Duration: 3 Hrs

Title of Paper: Political Institutions Paper Code : R23PS301 W.E.F

: 2024-25

SECTION-A

Time

Date -

5X4=20M

: 2pm-5pm

: 16-10-2024

I. Answer any <u>FIVE</u> of the following Questions

1. Unicameralism.

- 2. Meaning of separation of powers.
- 3. Unitary form of Government.
- 4. Presidential form of Government.
- 5. Principles of Democracy.
- 6. Conditions for the success of Democracy:
- 7. Types of pressure Groups.
- 8. Functions of Political parties.

SECTION-B

5X8=40M

- II. Answer any <u>FIVE</u> of the following Questions
- 9. Explain powers and functions of Legislature.
- 10. Describe powers and functions of Executive.
- 11. Explain about Montesquieu's doctrine of separation of powers.
- 12. Explain about Advantages and disadvantages of separation of powers.
- 13. Explain the merits and demerits of Federal Government.
- 14. Explain merits and demerits of parliamentary form of Government.
- 15. Define Democracy and explain its significance.
- 16. Explain various types of Democracy.
- 17. Define Political parties and explain classification of political parties.
- 18. Define public opinion and explain its significance.

Room No: Regd No:

> KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS

Class

: II B.A Honours (PS)

Max Marks: 60

Subject

: Politics

Pass Mark: 24

Title of Paper: Indian Constitution

Duration : 3 Hrs

Paper Code : R23PS302

Time : 2 pro - 5 pro

W.E.F

: 2024-25

Date : 17-10-2024

SECTION-A

I. Answer any FIVE of the following Questions

5X4=20M

- 1. Origin of constitution.
- 2. Montague Chelmsford Reforms, 1919.
- 3. Nature of constituent Assembly.
- 4. Preamble.
- **5.** Directive principles of state policy.
- 6. Fundamental Duties.
- 7. Kesavananda Bharath Case, 1973.
- 8. Minerva Mills case, 1980.

SECTION-B

II. Answer any FIVE of the following Questions

5X8=40M

- 9. Define constitution and explain Evolution of constitution.
- **10.** Explain about classification of the constitution.
- 11. Explain about constitutional development in India during the British Rule.
- **12.** Explain the Government of India Act. 1935.
- 13. Describe Socio Economic and philosophical dimensions of constituent Assembly.
- 14. Write about the salient features of Indian constitution.
- 15. Write an essay on fundamental rights.
- 16. Explain differences between fundamental rights and Directive Principles of state policy.
- 17. Explain the basic structure of the constitution and its origin and growth.
- 18. Explain the Judicial interpretation. Golaknadh case, 1967.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks : 60 Class : II BA Honours (PS) : 24 Pass Mark : Political Science Subject Duration : 3 Hrs Title of Paper: Western Political Thought: Ancient And Medival Time : 2pm - 5pm Paper Code : R23PS303 Date W.E.F : 2024-25 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. Plato's Justice **2.** Aristotle's Views on slavery. 3. Citizenship 4. Cicero Justice **5.** St. Augustine on war and peace. 6. St. Thomas Aguinas Political Philosophy 7. William Ockham Legacy. 8. Machiavelli's Human Nature. SECTION-B II. Answer any FIVE of the following Questions 5X8=40M 9. Explain about Plato's rule of Philosopher King. 10. Write about the Plato's scheme of Education. 11. Explain the theory of Revaluations. 12. Explain the features of Aristotle's best state. 13. Explain the concept of earthly city and heavenly city profounded by St. Augustine. 14. Explain the Cicero's influence on western political thought. 15. Write about Thomas Aquinas four cardinal principles. 16. Write about William Ockham's Political Philosophy.

17. What are the qualities of a Prince suggested by Machiavelli.

18. Discuss about the state and state craft.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II BA Honours (PS) Max Marks: 60 Subject : Political Science Pass Mark: 24 Title of Paper: Perspectives on Indian Society Duration : 3 Hrs : R23MSOC301 Paper Code : 20m-5pm Time W.E.F $\cdot 2024 - 25$ Date :21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Cognitive historical approach 2. Ashrama dharma 3. Types of marriage 4. Forms of Hindu marriage 5. Changing trends in Indian family **6.** Features of cast system 7. Socio religious movements 8. Composition of Indian Society SECTION-B II. Answer any FIVE of the following Questions 5X8=40M **9.** Explain the theoretical perspective of sociology **10.** Explain the about the purusharthas and varnadharma 11. Describe the Hindu view of life. 12. What are the changing trends in marriage. 13. Explain the structure and functions of joint family **14.** Discuss about the types of family. 15. Explain the features and function of caste system 16. Explain the origin of the caste system. 17. Discuss about the socio religious movements. **18.** Explain about the unity and diversity.

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Regd No:		Room No:						
	KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)							
III SEMESTER END EXAMINATIONS								
Clas	ss : II Degree (ALL Groups)	Max Marks	: 50					
	oject : Foundation	Pass Mark	: 20					
	e of Paper: Environmental Education	Duration						
C. 111.5	er Code : R20LSC304	Paper Time						
W.E	C.F : 2021-22	Date	:14.10.2024					
	SECTION - A							
I. At	aswer any <u>FOUR</u> Of the following questions.		4X5=20M					
1. I	Levels of Bio diversity.							
2 . F	Forest Resources.							
3. (Ozone layer depletion.							
4. I	Non Renewable Energy sources.							
5. I	Land Degradation.							
6. I	Kyoto protocol.							
7. (Chipco movement.							
8. A	Afforestation.							
	cane of SECTION -B							
II.	Answer THREE the following Questions		10X3=30M					
9.	Explain about scope, importance and multi discipli	nary nature of Envir	onmental					
	education.							
10.	Define Bio-diversity and explain various threats of	Bio diversity.						
11.	Explain briefly about various types of pollutions.							
12.	Write an essay on solid waste management.							
13. Explain about various laws for environmental protection.								
14.	What is Deforestation? Explain its causes and effect	cts.						
7								
The same								

Room No:	Regd No:
KAKARAPARTI BHAVANARAYAN	
III – SEMESTER END I	
Class : II B.Sc Honours (BT)	Max Marks: 60
Subject : BioTechnology	Pass Mark: 24
Title of Paper: Molecular Biology	Duration : 3 Hrs
Paper Code : R23BT302	Time : 2-p,m - 5-pm
W.E.F : 2024-25	Time : $2pm - 5pm$ Date : $18 10 2024$
SEC	TION-A
I. Answer any <u>FIVE</u> of the following Questions	5X4=20M
Draw labelled diagrams wherever necessary 1. Gene	
2. Origin of replication	
3. Reverse transcription	
4. Lac operon	
5. Wobble hypothesis	
6. Promoter	
7. Polyand mono cistronic mRNA	
8. Structure of t-RNA	
SEC	rion-B
II. Answer any <u>FIVE</u> of the following Questions	5X8=40M
Draw labelled diagrams wherever necessary 9. Explain Prokaryotic genome organization in E.col.	i2
AND THE RESIDENCE OF THE PARTY	OR)
10. Write about experiments to prove DNA as genetic	c material?
11. Define DNA replication? Write about enzymes an	d proteins involved in DNA replication? OR)
12. Explain Semi conservative replication with proof	
13. Explain Transcription in prokaryotes with neat la	
•	OR)
14. Write about basic features of transcription?	
15. Write an essay on Lac operon mechanism in prol	karyotic gene regulation? OR)
16. Write an essay on regulation of gene expression	in eukaryotes.
17. What is genetic code and write down its characte	eristics in detail? OR)
18. Write an essay on translation in prokaryotes with	AND COMP
. The an essay of translation in prokaryotes with	i irodi labolod diagrami.

Regd No Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks : 60 : II B.Sc Hon(Biotechnology) Class Pass Mark : 24 : Biotechnology Subject Duration : 3Hrs Title of Paper: Genetic Engineering : 2pm-5pm Time Paper Code : R23BT303 : 19.10.2024 Date W.E.F : 2024-25 SECTION-A 5X4=20M I. Answer any <u>FIVE</u> of the following Questions 1. Write about linkers and adapters 2. Explain the features of BAC 3. Discuss various applications of PCR 4. Write about codon optimization 5. Explain site-directed mutagenesis 6. Discuss about pyrosequencing 7. Explain silent features of phage vectors 8. Write about of human genome project SECTION-B 5X8=40M II. Answer ALL the Following Questions 9. Discuss briefly about the molecular tools used in genetic engineering 10. Give an account on the basis history scope and recent developments in genetic Engineering 11. Write about the properties and structure of plasmid vectors Puc19 & pBR322 (OR) 12. Give an account of screening and selection of recombinants 13. Write about the principle, methods, and types of PCR (OR) 14. Write an essay on the labeling of DNA 15. Explain the strategies of gene delivery (OR) 16. Give an account of the construction of cDNA libraries. 17. Give an account of chromosome engineering. 18. Write an account on DNA sequencing methods

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (BT) Max Marks: 60 Subject : BioTechnology Pass Mark: 24 Title of Paper: Metabolism Duration : 3 Hrs : 2pm-5pm Paper Code : R23BT304 Time' W.E.F : 2024-25 : 21-10-2024 Date

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions Draw labelled diagrams wherever necessary

5X4=20M

- 1. Write a brief note on Light and Dark reactions.
- 2. Explain Gluconeogenesis.
- **3.** Describe Biosynthesis of Cholesterol.
- 4. Write about Deamination.
- 5. Give an account on Transamination.
- 6. Write a note on Enzyme specificity.
- 7. Write about the applications of immobilized enzymes.
- 8. Explain Michaelis-Menten equation.

SECTION-B

II. Answer any <u>FIVE</u> of the following Questions Draw labelled diagrams wherever necessary

5X8=40M

9. Give detailed account on Glycolysis?

(OR)

- 10. Give detailed account on C4 pathway?
- 11. Write about Denovo synthesis of Fatty acids?

(OR)

- **12.** Write about Biosynthesis and degradation of TAG?
- 13. Write an essay on Inborn errors of aromatic and branched chain amino acid metabolism?

(OR)

- 14. What is creatine? Write down the biosynthesis of creatine?
- 15. Write about classification and nomenclature of Enzymes?

(OR)

- 16. Write the difference between Chemical and Biological Catalysts?
- **17.** Write down the various methods of enzyme immobilization?

(OR)

18. Write an essay on enzyme inhibition kinetics?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (BT) Max Marks: 60 Subject : BioTechnology Pass Mark : 24 Title of Paper: Plant And Animal BioTechnology Duration : 3 Hrs Paper Code : R23BT301 Time : 20m - 5pm W.E.F: 2024-25 Date : 17-10-2024 SECTION-A I. Answer any <u>FIVE</u> of the following Questions 5X4=20M Draw labelled diagrams wherever necessary 1. Write a brief note on M.S media. 2. Explain the importance of secondary metabolites. 3. Write about BT cotton 4. Describe the applications of DNA finger printing. 5. Give an account on cryopreservation. 6. Explain the production of Insulin. 7. Write about the merits and demerits of transgenic animals. 8. Explain primary containment for biohazards. SECTION-B II. Answer any FIVE of the following Questions 5X8=40M Draw labelled diagrams wherever necessary 9. Write an essay on callus culture? (OR) 10. Write about the technique of propagation and its applications? 11. Give an account on Agro bacterium -mediated gene transfer? (OR) 12. Write about principles and applications of RFLP, RAPD? 13. Give a detailed account on primary culture and secondary culture? (OR) 14. Write an essay on cell lines? 15. Write an essay on IVF? (OR) **16.** Write an essay on Gene therapy? 17. What is IPR? Explain types of IPR? (OR) 18. Write about bioethics in cloning and stem cell research?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS III - SEMESTER END EXAMINATIONS Class : II B.Sc (CBZ) Max Marks: 60 Subject : Botany Pass Mark: 24 Title of Paper: Anatomy And Embryology of Angiosperms, Plant Ecology And Biodiversity Duration: 3 Hrs Paper Code : R20BOT301A : 2pm - 5pm Time W.E.F 1: 2023-24 19.10.2024 Date SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Tunica - Corpus theory. 2. Double fertilization. 3. Ecological Pyramids. 4. Natality 5. Hot spots 6. Food chain 7. Teak 8. Value of Biodiversity SECTION-B II. Answer any FIVE of the following Questions 5X8=40M 9. Describe the arrangement of maristematic tissue in the shoot tip. 10. Describe the anomalous secondary growth in Boerhaavia stem. 11. Give an account on Endosperm types in angiospermic plants. (OR) 12. Describe the process of Dicot embryo development related to Capsella - bursa - pastoris. 13. Give an account on the basic components of an ecosystem. (OR) 14. Give an account on Hydrosera. **15.** Describe the components of a grass land ecosystem. (OR) **16.** Give an account on population growth and growth curves. 17. Define Biodiversity and explain the different levels of Biodiversity. (OR) Describe the roles of NBPGR and NBA.

Regd No. Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Max Marks : 60 : II B.Sc Hon(Microbiology) Class Pass Mark : 24 : Microbiology Subject Title of Paper: Biomolecules and Enzymology : 3Hrs Duration : 2pm to 5pm Time Paper Code : R23MB302 Date : 2024-25 W.E.F SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Epimers 2. Glucosamine 3. Importance of lipids in biological system 4. Structure and applications of waxes 5. Gramicidin 6. Structure of DNA 7. Allosteric inhibition 8. Lock and key hypothesis? SECTION-B 5X8=40M II. Answer ALL the Following Questions 9. Explain polysaccharides and write about the storage polysaccharides 10. Explain in detail about the stereoisomerism of monosaccharides 11. Explain the structure functions and metabolism of triglycerides and phospholipids? 12. Write about the structure and properties of lipids 13. Write about the general characteristics of Proteins and Amino acids? (OR) 14. Give an account of different types of protein structures? 15. Write about the types of vitamins and their role in metabolism? 16. Describe the structure and functions of DNA? 17. Write about the inhibition of enzyme activity? (OR) 18. Describe the mechanism of enzyme action?

Room No:		Regd No:					
KAKARAPARTI BHAVANARAYANA C							
III - SEMESTER END EXAMINATIONS							
Class : II B.Sc Honours (Microbiology)	Max Marks						
Subject : Microbiology	Pass Mark						
Title of Paper: Microbial And Analytical Techniques	Duration	: 3 Hrs					
Paper Code : R23MB303	Time	: 2pm-5pm					
W.E.F : 2024-25	Date	:19.10.2524					
SECTIO	N-A						
I. Answer any <u>FIVE</u> of the following Questions		5X4=20M					
Draw labelled diagrams wherever necessary.							
1. Application of Electron Microscope.							
2. Acid Fast Staining		g parti					
3. Bacteriostatic and Bactericidal agents.							
4. Laminar Air Flow chamber	1 122 1						
5. Viable non- culturable bacteria(VNBC)							
6. Column packing and fraction collection.							
7. Laws of Light absorption.		m.j. 14. iv 6.4 i.					
8. Applications of Centrifugation.	2						
SECTIO	N-B						
 II. Answer any <u>FIVE</u> of the following Questions Draw labelled diagrams wherever necessary. 9. Write about the types and principle of Electron Micro (OR) 		5X8=40M					
10. Explain about Staining Techniques.							
	<i>*</i>	. .					
11. Write briefly about the chemical methods of microb (OR							
12. Give an account on Dry heat and Moist heat Sterili	ization.						
13. Explain about the Pure culture techniques.							
(OR	ž.						
14. Write an essay on Cultivation of anaerobic bacteria	L.						
15. Write about the types of Column Chromatography.	2)						
16. Write about principle, instrumentation and applica	ations of UV	visible Spectrophotometer.					
17. Give an account on principle and types of Centrifu							
18. Explain briefly about the types of Electrophoresis.							

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc Honours (MB) Max Marks: 60 Subject : MicroBiology Pass Mark: 24 Title of Paper: Cell Biology And Genetics Duration : 3 Hrs Paper Code : R23MB304 Time : 2pm-5pm W.E.F : 2024-25 Date 21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M Draw labelled diagrams wherever necessary 1. Lysosomes 2. Nucleolus 3. Protein sorting **4.** Chromosome theory of inheritance 5. Genetic drift 6. Golgicomplex 7. Pedigree Analysis 8. Hard-Weinberg Law SECTION-B II. Answer any FIVE of the following Questions 5X8=40M Draw labelled diagrams wherever necessary 9. Describe the structure, types and functions of endoplasmic reticulum? (OR) **10.** Write an essay on Cell Cycle? 11. Write the structure, models of plasma membrane and functions? (OR) 12. Write the causes and steps in development of cancer? 13. Write an essay on stem cells and its applications? (OR) 14. Give an account on programmed cell death? 15. Explain Mendel's laws with suitable examples? (OR) 16. Write an essay on Multiple alleles with reference to blood groups? 17. What is crossing over? Describe crossing over in detail? (OR) 18. Write an essay on sex linked inheritance in Drosophila and Man?

Room No:		1-	Regd No:
KAF	KARAPARTI BHAVANARAY.	ANA COLLEGE (AU	TONOMOUS)
Class : II B.	III – SEMESTER EN		
	Sc Honours (MB) oBiology	Max Marks	
■	aryotic Micro Organisms	Pass Mark Duration	
	MB301	Time	A CONTRACTOR OF THE PROPERTY O
W.E.F : 2024	25	Date	:17-10-2024
	CI.	POTION A	
I. Answer any FIVE	of the following Question	ECTION-A	5X4=20M
Draw labelled d	iagrams wherever necessar	ry	021T-20M
1. Deuteromycetes			
2. Fungal Dimorphis	sm ,		
3. Biological control	of Mycotoxins		
4. Industrial applica	Mary and San San	2	
5. Pigments in Algae			
6. Importance of alga			
7. Culture media for			
8. Giardia	3-8		
8 1			
		e	
Draw labelled dia	E of the following Question agrams wherever necessary ltrastructure of Fungal cell?	7	5X8=40M
40		(OR)	
10. Write an essay o	n Heterothallism in Fungi?		
			. 3
11. Write in detail al	oout any two fungi as plant	and Animal Pathogo	ens?
		(OR)	
12. Give an Account	on Mushroom and its cultiv	vation?	
and the second s			
13. Explain about th	e occurrence, Thallus organ	ization and ultrasti	rucutre of Algae?
14 Cincinn		(OR)	
14. Give an account	on Reproduction in Algae?		
15. Give an account	on growth parameters of Alg		
16 Evaloin the imme	untaman af Alice is A	(OR)	
••• Explain the hilpo	ortance of Algae in Agricultu	re and Industry?	
17 Waits - 1	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
write about the p	oathogenic protozoa-Plasmoo		nia?
18. Describe the imp	ortance of Protozoa in Wasto	(OR)	G-11 B - 1111 B
uic mip	ortanice of Frotozoa III waste	unamagement and	Soil Fertility?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) III - SEMESTER END EXAMINATIONS Class : II B.Sc (CBZ) Max Marks: 60 Subject : Zoology Pass Mark: 24 Title of Paper: Biology, Genetics, Molecular Biology & Evolution Duration : 3 Hrs Paper Code : R20Z00301A Time :2pm_5pm W.E.F : 2022-23 Date : 21-10-2024 SECTION-A I. Answer any FIVE of the following Questions 5X4=20M 1. Mitochondria 2. Mendel's work on transmission of traits 3. Write about central dogma of molecular biology 4. What is Lac-Operon? How does it function in prokaryotic gene regulation? 5. Write about any 3 of chromosomal disorders 6. Hardy Weinberg law 7. Multiple alleles 8. Germ plasm theory SECTION-B II. Answer ALL the following Questions 5X8=40M 9. Write an essay on mycoplasma and Endoplasmic reticulum? 10. Give an account of the structure of plasma membrane and its functions? 11. What is sex determination and explain about chromosomal sex determination? 12. Write an essay on gene interactions and explain it with suitable examples suitable examples? 13. What is transcription? Write in detail about transcription in Prokaryotes and mention all the enzymes involved. (OR) 14. What is Translation? Emphasize on initiation elongation, and termination of translation process? 15. What are chromosomal disorders? Explain in detail about Autosomal and Allosomal disorders with examples. 16. Explain in detail about Genomics and proteomics. 17. Write an essay on origion of life? (OR) 18. What is speciation and write a brief note on allopatric and sympatric speciation?