KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by S.K.P.V.V. Hindu High Schools' Committee)

III SEMESTER END EXAMINATIONS DEC - 2023 (R/S)

DATE: 11/12/2023 TO 21/12/2023

DATE	TIME	B.Sc M.P.C	M.P.CS	M.S.CS	M.E.CS	M.C.CS	CBZ	DATA SCIENCE	IOT	B.VOC IT-ites	WEB TECHNOLOGY & S/W DEVELOPMENT	B.Com GEN	T.P	COMP	LOGISTICS	BBM/BBA	BCA
11-12-2023	09.00 to 11.00 A.M	COMMUNICATION AND SOFTSKILLS CBCS301 (2015-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2015-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17)	ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)	COMMUNICATION AND SOFTSKILLS CBCS301 (2016-17) ENVIRONMENTAL EDUCATION R20LSC304 (2021-22)
12-12-2023	09.00 to 11.00 A.M	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301 / CBCE301A (2017-18)	CITIZENSHIP EDUCATION CBCE301A	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)	CITIZENSHIP EDUCATION CBCE301A (2017-18) ANALYTICAL SKILLS R20LSC301 (2021-22)
13-12-2023	09.00 to 11.00 A.M	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) ENVIRONMENTAL AUDIT R20SDC301C (2021-22)	GENERAL ENGLISH CBENG301 (2016-17)	GENERAL ENGLISH CBENG301 (2016-17)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)	GENERAL ENGLISH CBENG301 (2016-17) RETAILING R20SDC302B (2021-22)
14-12-2023	09.00 to 12.00 Noon	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBHIN301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	*****	R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2021-22)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)	CBTEL301A / CBTEL301B CBHIN301 / CBHIN301A TELUGU / HINDI (2019-20) R20ENG301 A COURSE IN CONVERSATION SKILLS R20ENG301A (2023-24)
15-12-2023	09.00 to 12.00 Noon	MS - Excel CBICF301 (2015-16) C Language CBCL301 (2018-19) R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	MS - Excel CBICF301 (2015-16) C Language CBCL301 (2018-19) R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301 (2023-24)	*****	*****	MS - Excel CBICF301 (2015-16) C Language CBCL301 (2018-19) R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	MS - Excel CBICF301 (2015-16) C Language CBCL301 (2018-19) R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	MS - Excel CBICF301 (2015-16) C Language CBCL301 (2018-19) R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)	R20TEL301 / R20HIN301 GENERAL TELUGU / GENERAL HINDI R20TEL301 / R20HIN301A (2023-24)
16-12-2023	09.00 to 12.00 Noon	Abstract Algebra CBMAT301 / CBMAXSKILS (2019-20) R20MAT301 ABSTRACT ALGEBRA R20MAT301A (2023-24)	Abstract Algebra CBMAT301 / CBMAT301A (2019-20) R20MAT301 ABSTRACT ALGEBRA R20MAT301A (2023-24)	Abstract Algebra CBMAT301 / CBMAT301A (2019-20) R20MAT301 ABSTRACT ALGEBRA R20MAT301A (2023-24)	Abstract Algebra CBMAT301 / CBMAT301A (2019-20) R20MAT301 ABSTRACT ALGEBRA R20MAT301A (2023-24)	Abstract Algebra CBMAT301 / CBMAT301A (2019-20) R20MAT301 ABSTRACT ALGEBRA R20MAT301A (2023-24)	Plant Taxonomy & Embryology CBBOT301 / CBBOT301A (2019-20) R20BOT301 ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS, PLANT ECOLOGY AND BIODIVERSITY R20BOT301A (2023-24)	DSDD301 R20DSBDD301 DATA MINING AND DATA ANALYTICS R20DSBDD301A (2023-24)	RANDOM VARIABLES AND PROBABILITY DISTRIBUTION IOTIP301 (2019-20) R20IOTSTAT301 DESCRIPTIVE STATISTICS R20IOTSTAT301A (2023-24)	ALGEBRAIC SOLUTIONS AND NUMERICAL ANALYSIS ITWMAT301 (2020-21)	R20WSMAT301 R20WSMAT301 ALGEBRAIC SOLUTIONS AND NUMERICAL ANALYSIS R20WSMAT301A (2023-24)	Advanced Accounting - I CBAA301 (2016-17) R20COM301 ADVANCED ACCOUNTING R20COM301A (2023-24)	Advanced Accounting - I CBAA301 (2016-17) R20COM301 ADVANCED ACCOUNTING R20COM301A (2023-24)	Advanced Accounting - I CBAA301 (2016-17) R20COM301 ADVANCED ACCOUNTING R20COM301A (2023-24)	Advanced Accounting - I CBAA301 (2016-17) R20COM301 ADVANCED ACCOUNTING R20COM301A (2023-24)	Business Communication CBBC301 (2016-17) R20BBA301 BUSINESS ORGANISATION BEHAVIOUR R20BBA301A (2023-24)	CBCMAT301 / CBCMAT301A / CBCMAT301B ALGEBRAIC AND NUMERICAL ANALYSIS (2015-20) R20BCA301 ACCOUNTING AND FINANCIAL MANAGEMENT R20BCA301A (2023-24)
18-12-2023	09.00 to 12.00 Noon	WAVE OPTICS CBPHY301 / CBPHY SKILS (2019-20) R20PHY301 HEAT AND THERMODYNAMICS R20PHY301A (2023-24)	WAVE OPTICS CBPHY301 / CGPHY301A (2019-20) R20PHY301 HEAT AND THERMODYNAMICS R20PHY301A (2023-24)	CBSTTL301 / CBSTTP301A STATISTICAL METHODS CBSTT301E (2020-21) R20STAT301 STATISTICAL INFERENCE R20STAT301A (2023-24)	DIGITAL ELECTRONICS & DATA CONVERTERS CBELED301 / CBELED301A (2019-20) R20ELE301 ANALOG CIRCUITS & COMMUNICATION R20ELE301A (2023-24)	*****	CBZGD301 / CBZXX301A Cytology, Genetics and Evolution (2019-20) R20ZOO301 CELL BIOLOGY, GENETICS, MOLECULAR BIOLOGY AND EVOLUTION R20ZOO301A (2023-24)	DSSMCSI STATISTICAL METHODS R20DSSTAT301 STATISTICAL INFERENCE R20DSSTAT301A (2023-24)	IOTDBPMS301 MEASURING PRINCIPLES AND MEASURING SYSTEMS IOTMDBA301 (2019-20) R20IOTLESS301 DIGITAL ELECTRONICS R20IOTELE301A (2023-24)	E-COMMERCE ITEC301 (2020-21)	E-COMMERCE WSEC301 (2020-21) R20WSEC301 E-COMMERCE R20WSEC301A (2023-24)	CBBS301 / CBBS301A BUSINESS STATISTICS - I (2019-20) R20COM301 BUSINESS STATISTICS R20COM301A (2023-24)	CBBM301 / CBBM301A BUSINESS STATISTICS I (2019-20) R20COM301 BUSINESS STATISTICS R20COM301A (2023-24)	CBBM301 / CBBM301A BUSINESS STATISTICS - I (2019-20) R20COM301 BUSINESS STATISTICS R20COM301A (2023-24)	BUSINESS STATISTICS - I CBBS301A (2019-20) R20COM301 BUSINESS STATISTICS R20COM301A (2023-24)	Human Resource Management-I CBHRM301 (2016-17) R20BBA301 HUMAN RESOURCE MANAGEMENT R20BBA301A (2023-24)	Accounting & Financial Management CBFIN301 (2016-17) R20BCA301 OBJECT ORIENTED PROGRAMMING THROUGH JAVA R20BCA301A (2023-24)
19-12-2023	09.00 to 12.00 Noon	*****	OOPS With Java CBCSC301 / CBBCA301 (2016-17) R20CSC301 DATA BASE MANAGEMENT SYSTEMS R20CSC301A (2023-24)	OOPS With Java CBCSC301 / CBBCA301 (2016-17) R20CSC301 DATA BASE MANAGEMENT SYSTEMS R20CSC301A (2023-24)	OOPS With Java CBCSC301 / CBBCA301 (2016-17) R20CSC301 DATA BASE MANAGEMENT SYSTEMS R20CSC301A (2023-24)	OOPS With Java CBCSC301 / CBBCA301 (2016-17) R20CSC301 DATA BASE MANAGEMENT SYSTEMS R20CSC301A (2023-24)	*****	OOPS With PYTHON R20DSP301 (2019-20) R20IOTGP301 OOPS With PYTHON R20IOTGP301A (2023-24)	PYTHON PROGRAMMING ITPP301 (2020-21)	PROGRAMMING IN JAVA WSJP301 (2020-21) R20WSJP301 PROGRAMMING IN JAVA R20WSJP301A (2023-24)	Banking & Financial Services CBBFS301 (2016-17) R20COMBG303 MARKETING R20COMBG303A (2023-24)	Banking & Financial Services CBBFS301 (2016-17) R20COMBG303 INDIAN BANKING SYSTEM R20COMBG303A (2023-24)	Banking & Financial Services CBBFS301 (2016-17) R20COMBG303 PROGRAMMING WITH C & C++ R20COMC303A (2023-24)	CBMT301 MATERIAL MANAGEMENT CBMTM301A (2019-20) R20COMLOG3 MATERIAL MANAGEMENT R20COMC303A (2023-24)	CBFM301 / CBFM301A FINANCIAL MANAGEMENT (2016-17) R20BBA303 FINANCIAL MANAGEMENT R20BBA303A (2023-24)	OOPS With Java CBCSC301 / CBBCA301 (2016-17) R20BCA303 OPERATING SYSTEMS R20BCA303A (2023-24)
20-12-2023	09.00 to 12.00 Noon	CBCHE301 INORGANIC AND ORGANIC CHEMISTRY CBCHE301A (2019-20) R20CHE301 ORGANIC CHEMISTRY AND SPECTROSCOPY R20CHE301A (2023-24)	*****	*****	*****	CBCHE301 INORGANIC AND ORGANIC CHEMISTRY CBCHE301A (2019-20) R20CHE301 ORGANIC CHEMISTRY AND SPECTROSCOPY R20CHE301A (2023-24)	CBCHE301 INORGANIC AND ORGANIC CHEMISTRY CBCHE301A (2019-20) R20CHE301 ORGANIC CHEMISTRY AND SPECTROSCOPY R20CHE301A (2023-24)	*****		HTML & ANGULAR JS ITHAJ301 (2020-21)	ADVANCED ANGULAR-JS WRAAJ303 (2020-21) R20WSAAJ303 ADVANCED ANGULAR-JS R20WSAAJ303A (2023-24)	CBIT301 INCOME TAX CBIT301A (2019-20)	INCOME TAX PROCEDHURES & PRACTICES CBITP301 (2016-17)	CBC301 WEB DESIGNING CBWD301 (2017-18)	CBPM301 PRODUCTION MANAGEMENT CBPM301A (2019-20)	CBMRM301 MARKETING MANAGEMENT CBMRM301A (2019-20)	RDBMS CBBCA303 (2016-17)

Controller of Examinations

PRINCIPAL

KAKARAPARTI BHAVANARAYANA COLLEGE [AUTONOMOUS]
III – SEMESTER END EXAMINATIONS

Class	: II Degree (All Groups)	Max Marks	: 60
Subject	: Telugu	Pass Mark	: 24
Title of Paper	: General Telugu	Duration	: 3 Hrs
Paper Code	: R20TEL301A	Time	: 2 hes to 12:00
W.E.F	: 2023-24	Date	: 15/12/2023

విభాగం - అ

1. ఈ క్రింది వానిలో ఏవైనా అయిదింటికి సంక్షిప్త సమాధానాలు వ్రాయుము   5X4=20మా

1. బాష ప్రైమరి ఉపయోగం   2. భక్తవల

3. ఆమువర్గ అనయ్యశ   4. సంపాదకీయుల గుర్పి వ్రాయుడి

5. వార్తకు శీర్షిక ప్రాభాన్యతను వివరించండి   6. రేడియో చదవార్టిని బాధ ఎలా ఉంటారి

7. యాంకరింగ్ లక్షణాలు వివరించండి

8. క్రింది ఇంగ్లీషును తెలుగులో ఈ అనువదించుము

Education is extremely important for Employment. It is certainly is a great opportunity to
make a decent living. This is due to the Skills of a high paying Job that Education provides.
Uneducated People are probably at a huge disadvantage when it comes to Jobs It seems
like many poor people improve their lives with the help of Education

విభాగం - ఆ

II. ఈ క్రింది వానిలో అన్ని ప్రశ్నలకు సమాధానములు వ్రాయుము   5X8=40మా

9. వాక్యాన్ని నిర్వచించి వాక్ర లక్షణాలను విశదీకరించి

(లేదా)

10. ఆధ్వని అనుసరించి విధుల వాక్యాలను తెలియండి

11. అత్మీయ కధ లక్షణాలను వ్రాయుడి

(లేదా)

12. దద్యం వ్రాత లక్షణాలు వ్రాయుడి

13. ఆటువాత సమాసులను లాగు పరిశోధ మార్గాలను వ్రాయండి

14. ఆటువాత్రాన్ని నిర్వచించి ఆటువాత విధురులను వ్రాయండి

15. ముద్రణ మాధ్యమం పరిధి విశాలతలను పేర్కొనండి

(లేదా)

16. వాక్ర నిర్మాణంలో వార్త లక్షణాలను తెలుసుకో

17. యాంకరింగ్ నిర్వహణ లేని చెన్నులను వివరించండి

(లేదా)

18. ప్రైవేటుమధ్యమాల చిన్నత్వ ప్రయోజనాలు 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
Paper Code   : R20TEL301   Paper Time : ೦౯:೦೦ ೬ ౧౨:೦೦
W.E.F   : 2021-22   Date   : 15/12/2023

విభాగము -అ

I.ఈ క్రింది ప్రశ్నలలో ఏవైనా ఐదు ప్రశ్నలకు సంక్షిప్త సమాధానాలు వ్రాయుము   5 x 5 =25 మార్కులు

1. భాష ప్రయోజనాలు   2. వాక్య లక్షణాలు

3. టెలివిజన్ రచన   4. బ్లాగ్ ను వివరించండి

5. చారిత్రక వ్యాసాలు   6. యాంకర్ లక్షణాలు

7. సంపాదకీయాలు

8. ఈ క్రింది ఆంగ్లంలోని అంశాన్ని తెలుగులోకి అనువదించండి

As with most linguistic phenomena, there is a social reason for the growth of Telugu in the United States. The immigration of many engineers and technology developers from the Telugu-speaking states of Andhra Pradesh and Telangana started with the need for qualified professionals in the information technology sector. Many IT-savvy Indians from cities of Hyderabad, Vijayawada and Visakhapatnam migrated to the US in the 2000's along with their families, creating a Telugu-speaking community that continues to expand. This has, in turn, also increased the demand for Telugu-based services, such as language lessons, books and technology.

విభాగము -ఆ

II.ఈ క్రింది వానిలో అన్ని ప్రశ్నలకు సమాధానాలు వ్రాయుము   5 x 10=50 మార్కులు

9. భాషను నిర్వచించి, భాషా ప్రయోజనాలను తెలపండి

    (లేదా)

    భాషా లక్షణాలు రాసి, ప్రామాణిక భాషను పరిచయం చేయండి

10. పాశ్చాత్య విమర్శకులు కవిత్వ స్వరూపాన్ని ఏ విధంగా వివరించారో చెప్పండి

    (లేదా)

    కథానికకు ఒక నిర్వచనం చెప్పి, ఉత్తమ కథానికా లక్షణాల్ని వివరించండి

11. అనువాదాన్ని నిర్వచించి, అనువాద పద్ధతుల్ని వివరించండి

    (లేదా)

    వ్యాస రచనల్లో భేదాలను వివరించండి

12. పత్రికా భాషను గురించి, దాని శైలిని గురించి తెలపండి

(లేదా)

తెలుగు భాషలో పత్రికల వర్గీకరణను రాయండి

13. వార్తను నిర్వచించి, వార్తా లక్షణాల్ని తెలియజేయండి

(లేదా)

టెలివిజన్ రచనలో ఉపయోగించే భాష ఎలా ఉండాలి.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class   : II Degree (All Groups)   Max Marks : 75
Subject   : English   Pass Mark : 30
Title of Paper : English Praxis Course- III A Course in Conversational Skills   Duration : 3 Hrs
Paper Code   : R20ENG301   Paper Time : 9am-12noon
W.E.F   : 2021-22   Date : 14.12.2023

SECTION –A

I. Answer any **FIVE** Of the following questions.   5X5=25M

1. What does the title "A Tryst with Destiny" convey?

2. How many types of greetings are there?

3. How does Dr.Kalam support developing missiles as a positive act?

4. How do you make information question? Give two examples?

5. How do you give directions to your friend to reach your house from Bus station?

6. What is the loss, Steve Jobs faced and how did it help him?

7. Give a clear description of your College Library.

8. Name some interview techniques.

SECTION –B

II. Answer ALL the following Questions   5X10=50M

9.   What, according to Pandit Jawaharlal Nehru, is the future of India?

(OR)

10. How do you introduce yourself in an interview?

11. Identify at least 3 points on the attitude, Obama expects from the people of America?

(OR)

12. What is a request and what are the different ways of requests in English?

13. What is team leadership or collective leadership? What does Mandela say about it?

(OR)

14. What is the pleasure in agreeing for a deal?

15. (a) What do you assess about JRD Tata from his observations on G.D Birla and Dhirubai Ambani?

(OR)

16. Build a dialogue between a Teacher and a student in the class.

17. (a) What is a Debate and mention the stages in Debate?

(OR)

18. (b) How do role-plays help us to develop language skills?

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II Degree (All Groups)   Max Marks : 60
Subject   : English   Pass Mark : 24
Title of Paper : A Course in Conversational Skills   Duration : 3 Hours
Paper Code   : R20ENG301A   Time   : 9am - 12 noon
W.E.F   : 2023-24   Date   : 14-12-2023

SECTION-A

I. Answer any FIVE questions of the following   **5 X 4 = 20 Marks**

1) What according to the speaker in the future of India?

2) Describe the importance of Greetings.

3) What are the six leadership traits that Kalam talks about?

4) Seek information from the teacher about next week grand test.

5) How do you give directions to a stranger to reach railway station to Bus stop?

6) "The only work to do great is to love what you do"? Explain

7) Give a clear description of your village in about 75 words.

8) How should one prepare for an Interview?

SECTION - B

II. Answer the following questions   **5 X 8 = 40 Marks**

9) Explain briefly what Nehru means by the name of the phrase "The service of India"?

(OR)

10) How do you introduce your team members to the chief guest?

11) Summarize Obama's speech, "Yes we can."

(OR)

12) You are not feeling well and want to go home quickly. Make a request to your teacher asking him/her to permit you.

13) Explain in your own words Mandela says "he learnt while he was in prison".

(OR)

14) What is the pleasure in agreeing for a deal.

15) What do you assess about JRD from his observation on G.D.Birla and Dhirubhai Ambani?

(OR)

16) Build a dialogue between you and your childhood friend you have met after a long time.

17) What are the stages in a debate?

(OR)

18) What are the benefits of role-play?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II Degree (All Groups)   Max Marks : 75
Subject   : Hindi   Pass Mark : 30
Title of Paper : Hindi   Duration   : 3Hrs
Paper Code   : R20HIN301   Time   : 09:00 to 12:00
W.E.F   : 2022-23   Date   : 15/12/2023

PART – A
(Short Answers Questions)   25Marks

निम्न लिखित प्रशनों में से किन्हीं पाँच प्रशनों का उत्तर दीजिए |

1. व्यख्या किजिए।

   जब मैं था तब गुरु नही, अब गुरु हैं मैं नाहिं |

   प्रेम गति अति सॉं कति, या में दो न समाहिं ||

2. किसी एक कवि का साहित्यिक परिचय दीजिए।

   1. भवानी प्रसाद मिश्रा   2. कबीर

3. तोड़ती पत्थर कविता की विशेषताएं लिखिए ।

4. व्यख्या किजिए।

   जो गीत जनम का लिखूँ, मरन का लिखूँ

   जो गीत जीत का लिखूँ, शरण का लिखूँ

5. प्रेमाश्रय शाखा की विशेषताएं लिखिए ?

6. प्रदूषण के नष्ट लिखिए ?

7. कार्यालय ज्ञापन के बारे में लिखिए ?

8. राष्ट्र भाषा हिंदी एक के बारे में लिखिए ?

PART – B
(Essay Questions)

50 Marks

इ).किसी एक कविता का सारांश विशेषताओं सहित लिखिए।   **10M**

    1.मातृभूमि   2. तोड़ती पत्थर

ई).हिंदी साहित्य का इतिहास - काल विभाजन के बारे में लिखिए ?   **10M**

              या

ज्ञानश्रय शाखा के बार में विशेषताएं के बारे में लिएखि?

उ).किसी एक निबन्ध के प्रति प्रकाश डालिए।   **10M**

  1. कंप्यूटर   2. बेकारी समस्या   3. समाचार पत्र

ऊ.हिंदी में अनुवाद कीजिए।   **5X2=10M**

  1.Don't waste Time.

  2.We should respect out parents.

  3.The clock is on the wall.

  4.Where are you going now?

  5.We shall go.

            या

अंग्रेजी में अनुवाद कीजिए।

  1. लडके गा रहे हैं।

  2. हिंदी हमारा राष्ट्र भाषा है।

  3. यह फल कैसा है ?

  4. हम दिवाली मनाते हैं।

  5. तुम कौन हो ?

ऊ). किसी एक पर टिप्पणी लिखिए।   **10M**

  1. परिपत्र   2. राष्ट्र भाषा हिंदी   3. कार्यालय ज्ञापन

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II Degree (All Groups)	Max Marks	: 60
Subject	: Hindi	Pass Mark	: 24
Title of Paper	: Hindi	Duration	: 3Hrs
Paper Code	: R20HIN301A	Time	: 09:00 to 12:00
W.E.F	: 2022-23	Date	: 15/12/2023

SECTION – A
(Short Answers Questions)   5X4= 20Marks

निम्न लिखित प्रश्नों में से किन्हीं पाँच प्रश्नों का उत्तर दीजिए |

1. किसी एक कवि का जीवन परिचय दीजिए |

    1. सूर्यकांति त्रिपाठी निराला   2. सूरदास

2. गीत फिरोश कविता की विशेषताएं लिखिए |

3. ज्ञानश्रय शाखा की विशेषताएं लिखिए ?

4. परिपत्र के बारे में लिखिए ?

5. अनुवाद किसे कहते है ?

6. व्यख्या किजिए|

    कबिरा सत्गुरु न मिला, रही अधूरी सीख |

    स्वांग जति का पहिरि करि धरि धरि माँग भीख ||

7. व्यख्या किजिए|

    जी , और गीत भी हैं ,दिखलाता हूँ,

    जी सुनना चाहे आप तो गाता हूँ,

    जी, छंद और बेछंद पसंद करें

    जी, अमर गीत और वे जो तुरंत मरे।

8. समाचारपत्र निबंध लिखिए ?

SECTION – B
(Essay Questions)

5x8=40 Marks

इ).किसी एक कविता का सारांश विशेषताओं सहित लिखिए |

   1.मातृभूमि   2. तोड़ती पत्थर

ई).हिंदी साहित्य का इतिहास – काल विभाजन के बारे में लिखिए ?

या

प्रेमाश्रय शाखा के बार में विशेषताएं के बारे में लिखिए?

उ).किसी एक निबन्ध के प्रति प्रकाश डालिए |

   1. कंप्यूटर   2. बेकारी समस्या   3. पर्यावरण और प्रदुषण

ऊ.हिंदी में अनुवाद कीजिए|

   1.When do you go to colleges.
   2.Mother was making bread.
   3.They run fast.
   4.They are doing well?

या

अंग्रेजी में अनुवाद कीजिए।

   1. सीता ने सुना ।

   2. वे खड़े रहे है।

   3. कल छुट्टी थी ।

   4. बिल्ली दूध पीता है।

ऊ). किसी एक पर टिप्पणी लिखिए |

   1. परिपत्र   2. राष्ट्र भाषा हिंदी   3. कार्यालय ज्ञापन

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MSCS/DS)	Max Marks	: 75
Subject	: Statistics	Pass Mark	: 30
Title of Paper	: Statistical Methods	Duration	: 3 Hrs
Paper Code	: CBSTT301B/DSDSM301A	Time	: 9am – 12 noon
W.E.F	: 2020-21	Date	: 18 – 12 – 2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Define independence of random variables.

2. Define conditional probability of x & y.

3. Define the type's correlation.

4. Explain Karl Pearson correlation coefficient.

5. What is correlation ratio?

6. Explain the principle of least squares.

7. Define the order of class and class frequencies.

8. Define the class symbols as operators.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Explain the distribution function and explain its properties.

(OR)

10. Explain Joint distribution function and also explain marginal distribution function of x & y.

11. Derive the formula for rank correlation coefficient.

(OR)

12. Find the limits of correlation and effect of change of origin and scale on Correlation coefficient.

13. Explain the properties of regression lines.

(OR)

14. Explain the difference between correlation and regression.

15. Derive the normal equations for exponential curves.

(OR)

16. Fit a straight line of the form Y= a+bx to the following data.

X	1	2	3	4	5	6
Y	55	46	40	38	33	30

17. Explain the criteria for consistency of attributes.

(OR)

18. Given that (A) = 50 , (B) = 60, (C)= 50, (Aβ) =5 , (Aγ) = 20 and N=100. Determine the limits for (BC)

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.Sc. (MSCS/DS)	Max Marks	: 75
Subject	: Statistics	Pass Mark	: 30
Title of Paper	: Statistical Inference	Duration	: 3 Hrs
Paper Code	: R20STAT301/R20DSSTATA301	Paper Time	:9am–12noon
W.E.F	: 2021-22	Date	: 18-12-2023

SECTION – A

I. Answer any FIVE Of the following questions.   **5X5=25M**

1. Explain the applications of t- distributions.

2. Define consistency and efficiency with their examples.

3. Distinguish between point and interval estimation.

4. Explain types of errors.

5. Explain the critical region, most power of test and level of significance.

6. Explain the paired t-test for difference means.

7. Distinguish between parametric and non- parametric test.

8. Explain the Mann Whitney U- test procedure.

SECTION –B

II. Answer ALL the following Questions.   **5X10=50M**

9. Explain the relation between F and χ^2 distributions.

(OR)

10. Define t- distribution and derive its mean and variance.

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 $H_0: \lambda = 2$ against $H_1: \lambda = 3$ based on the sample drawn from a poisson population.

15. Explain the test procedure for large samples of two population standard deviations.

(OR)

16. Explain the F – test for equality of population variance.

17. Explain the Wilcoxon signed rank test procedure.

(OR)

18. Explain the sign test for two samples.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MSCS, DS)	Max Marks	: 60
Subject	: Statistics	Pass Mark	: 24
Title of Paper	: Statistical Inference	Duration	: 3 Hrs
Paper Code	: R20STAT301A/R20DSSTAT301A	Time	: 9am – 12 noon
W.E.F	: 2021-22	Date	: 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain reproductive property of chi-square distribution

2. Relation between t and F distribution

3. Distinguish between point and interval estimation.

4. Explain the method of moments

5. Describe the following – Null hypothesis, alternative hypothesis and power of test

6. Define one -tailed and two tailed test

7. Explain test procedure for testing of hypothesis.

8. What are the assumptions on Non – Parametric test

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Relation between F and chi square distribution

(OR)

10. Define t distribution and derive its mean and variance

11. Write the characteristic of good estimator

(OR)

12. Explain the method of maximum likelihood estimation and what are its properties

13. State and prove Neyman -Pearson lemma.

(OR)

14. Obtain best critical region for testing $H_0:P=P_0$ against $H_1:P=P_1$ in a binomial population

15. Explain test procedure of two proportions

(OR)

16. Explain the conditions for the validity of chi square test and also Explain the chi square test for independence of attributes.

17. Explain the sign test for two samples.

(OR)

18. Explain the median test procedure.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II Degree (All Groups)   Max Marks : 50
Subject   : Mathematics   Pass Mark : 20
Title of Paper : Analytical Skills   Duration : 2 Hrs
Paper Code   : R20LSC301   Time   : 9 am – 11 am
W.E.F   : 2021-22   Date   : 12.12.2023

SECTION-A

I. Answer any TEN of the following Questions   10X2=20M

1. Find the odd man out of the series 3 5 9 11 14 17 21

2. Simplify: 9358-6014+3127

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

4. Find the missing number in the series? 6 15 33 69 141 285?

5. Find the wrong number in the series? 1, 2, 6, 15, 31, 56, 91

6. Find the odd man out in the series? 284, 362, 242, 393, 472

7. 15% of? = 94.5

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

9. How many number's from 200 to 800 which are divisible by 5.

10. Find the day of week august 15th, 1947?

11. If $x/4 - ((x-3)/6) = 1$. Then find the value of x.

12. If $x:y = 3:4$. Find $4x+5y:5x - 2y$.

13. The speed of train is 90Kmph. What is the distance covered by it in 10mins?

14. What will come in the place of question mark in the following series 21, 34? 89, 144

15. Find the simple interest on Rs. 68,000 at 162/3% per annum for 9 months?

SECTION-B

II. Answer any FIVE 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 highest 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?

[P.T.O

17. What was the day week on 16th July 1775?

18. Find the angle between the hours hand and minute's hand of the clock when the time is 03:25?

19. At what time between 2 and 3 'o clock will the hands of clock be together?

20. The average monthly income of P&Q is Rs. 5050. The average monthly income of Q&R is Rs. 6250 and average monthly income of P&R is Rs. 5200. Then find the monthly income of P ?

21. The present age of a father is 3 years more than 3 times the age of his son. 3 years hence, father's age will be 10 years more than twice the age of the son. Find the present age of the father?

22. Explain BODMAS rule?

23. An article is sold at a certain price. By selling it at 2/3 of that prices one loses 10%. Find the gain percent at original price?

24. Explain types of VENN diagrams?

25. What will be the HCF of 1785, 1995 and 3381?

Regd No:_____   Room No:_____

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.Sc. (MPC, MPCS, MECS, MSCS, MCCS)	Max Marks	: 75
Subject	: Mathematics	Pass Mark	: 30
Title of Paper	: Abstract Algebra	Duration	: 3 Hrs
Paper Code	: R20MAT301	Paper Time	: 09:00 to 12:00
W.E.F	: 2021-22	Date	: 16/12/2023

SECTION – A

I. Answer any FIVE Of the following questions.   **5X5=25M**

1. Show that fourth roots of unity form an abelian group under multiplication.

2. Define order of an element. In a group G, prove that if $a \in G$ then $0(a) = 0(a^{-1})$.

3. If H_1 and H_2 are two subgroups of a group G then prove that $H_1 \cap H_2$ is also a subgroup of group G.

4. Prove that every subgroup of an abelian group is normal.

5. 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.

6. If a is a generator of a cyclic group G, then prove that a^{-1} is also a generator of G.

7. Prove that the characteristic of an integral domain is either a prime or zero.

8. Prove that a field has no proper ideals.

SECTION –B

II. Answer ALL the following Questions   **5X10=50M**

9) Show that the set of nth roots of unity forms an abelian group under multiplication.

(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) 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 subgroup of cyclic group is cyclic.

17) Prove that every finite integral domain is a field.

(OR)

18) Let S be a non-empty subset of a ring R. Then prove that S is a subring Of R iff $a-b \in S$ and $ab \in S \ \forall \ a,b \in S$.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II B.Sc (MPC , MPCS, MECS, MSCS, MCCS)   Max Marks : 60
Subject   : Mathematics   Pass Mark : 24
Title of Paper : Abstract Algebra   Duration   : 3 Hrs
Paper Code   : R20MAT301A   Time   : 09:00 to 12:00
W.E.F   : 2023-24   Date   : 16/12/2023

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions   **5X4=20M**

1. Let (G,.) be a group. Then prove that $(ab)^{-1} = b^{-1}a^{-1}$ $\quad \forall a,b \in G$

2. Show that the fourth roots of unity forms an abelian group under multiplication.

3. If H_1, H_2 are two subgroups of a group G then prove that $H_1 \cap H_2$ is a subgroup of G.

4. Prove that a subgroup H of a group G is normal if and only if $xHx^{-1} = H \ \forall x \in G$

5. Prove that whether the permutation $f = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 4 & 5 & 6 & 7 & 1 \end{pmatrix}$ is even or odd permutation.

6. Prove that every cyclic group is abelian.

7. Prove that every Boolean ring is abelian.

8. Prove that a field has no proper ideals.

SECTION-B

II. Answer <u>ALL</u> the following Questions   **5X8=40M**

9. Show that the set Q+ of all +ve (positive) rational numbers forms an abelian group under

the operation 'O' defined by $aob = \dfrac{ab}{3} \ \forall \ a,b \in Q+$

(OR)

10. Prove that a finite semi group satisfying cancellation laws is a group.

11. If H is a non-empty complex of a group G then prove that the necessary and sufficient
condition for H to be a subgroup of G is $a,b \in H \Rightarrow ab^{-1} \in H$. Where b^{-1} is the inverse of b in G

(OR)

12. State and prove Legranges theorem for cosets.

13. If is a homomorphism from a group G into G^l then prove that Kernel is a normal subgroup
of G.

(OR)

14. State and prove fundamental theorm of homomorphism for groups.

15. State and prove Cayleys theorem.

(OR)

16. If p is a prime number then prove that every group of prime order is a cyclic group.

17. Prove that every finite Integral domain is a field.

(OR)

18. Let S be a non-empty subset of a ring R. Then prove that S is a subgroup of R if and only if $a-b \in s$ & $ab \in s$ $\forall a,b \in s$

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II B.Voc (WT)   Max Marks : 75
Subject   : Mathematics   Pass Mark : 30
Title of Paper : Algebraic Solutions and Numerical Analysis   Duration : 3 Hrs
Paper Code   : R20WSMAT301/WSMAT301/ITMAT301/CBCMAT301B   Time : 09:00 to 12:00
W.E.F   : 2021-22   Date : 16/12/2022

SECTION-A

I. Answer any FIVE Questions   5X5=25M

1. Find the 3 A.M'S between 14 & 38.
2. For the series of 2+8+14+20+......find the 10th term & sum of 10 terms.
3. Find the value of $Lt_{x\to 0} \dfrac{1-\cos x}{x^2}$.
4. Find the value of $Lt_{x\to a} \dfrac{\tan(x-a)}{x^2-a^2}$.
5. Prove that   a) $(1+\Delta)(1-\nabla) = 1$ b) $\Delta \log f(x) = \log(1+\dfrac{\Delta f(x)}{f(x)})$.
6. Derive the stirling's Difference Formula.
7. If $12_{c_{r+1}} = 12_{c_{3r-5}}$ then find 'r'.
8. Prove that $25_{c_4} + \sum_{r=0}^{4}(29-r)_{c_3} = 30_{c_4}$.

SECTION-B

II. Answer ALL the Questions   5X10=50M

9) If the continuous product of 3 numbers in G.P IS 216 & sum of their products in pairs is 156, then Find the numbers.

(OR)

10) Find the three numbers in A.P whose sum is 9 and their product is −165.

11) Find the value of $Lt_{x\to 0} \dfrac{\sqrt{a+2x} - \sqrt{3x}}{\sqrt{3a+2x} - 2\sqrt{x}}$

(OR)

12) Find the value of $Lt_{x\to a} \dfrac{\sin(x-a)\tan^2(x-a)}{(x^2-a^2)^2}$

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

(OR)

14) If $\mu_0=1, \mu_1=0, \mu_2=5, \mu_3=22, \mu_4=57$ find $\mu_{0.5}$ by using Newton's forward formula.

15) State and prove Gauss's Backward Difference formula.

(OR)

16) Use Gauss forward interpolation formula to find f(3.3) from the following table

X	1	2	3	4	5
Y = f(x)	15.30	15.10	15.00	14.50	14.00

17) Find the number of 4 digit numbers that can be formed using the digits 1,2,5,6,7 How many of them are divisible by
   i) 2   ii) 3   iii) 4   iv) 5   v) 25

(OR)

18) 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 & girls come alternatively.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: I B.VOC (WS)	Max Marks : 60
Subject	: MATHEMATICS	Pass Mark : 24
Title of Paper	: ALGEBRIC SOLUTIONS AND NUMERICAL ANALYSIS	Duration : 3 Hrs
Paper Code	: R20WSMAT301A	Time : 09:00 to 12:00
W.E.F	: 2023-24	Date : 16/12/2023

SECTION-A

Answer any FIVE questions.   5 X 4 = 20M

1. Find the 3 A.M's between 14 & 38.

2. Find the sum of all odd numbers between 51 and 99 inclusive.

3. Evaluate $\lim_{x \to \frac{\pi}{2}} \frac{\cos x}{x - \frac{\pi}{2}}$

4. Evaluate $\lim_{x \to 0} \frac{a^x - 1}{b^x - 1}$.

5. Define Backward difference operator.

6. Given $y_{20} = 24$, $y_{24} = 32$, $y_{28} = 35$, $y_{32} = 40$ find y_{25} by Bessel's formula.

7. Find the number of ways of arranging the letters of the word INDEPENDENCE.

8. If $12_{c_{r+1}} = 12_{c_{3r-5}}$ then find r.

SECTION-B

Answer the following questions.   5 x 8 = 40M

9) The 6th term of G.P is 1215 and 3rd term is 45. Find the sum of 6 terms.

(OR)

10) The 4th term of a A.P is 17 and 8th term is 33. Determine the number of terms to give the sum of 230.

11) Evaluate $\lim_{x \to a} \frac{\cos ax - \cos bx}{x^2}$.

(OR)

12) Evaluate $\lim_{x \to 0} \frac{e^x - 1}{\sqrt{1+x} - 1}$.

13) State and prove Newton- Gregory's forward interpolation formula with equal intervals.

(OR)

14) The population of country in decimal census were as under. Estimate the population for the year 1925.

Year	1891	1901	1911	1921	1931
Population (in thousands)	46	66	81	93	101

(5) Derive Gauss's forward difference formula.

(OR)

(6) Use Stirling's formula to find y_{28}, given $y_{20} = 49225$, $y_{25} = 48316$, $y_{30} = 47236$, $y_{35} = 45926$, $y_{40} = 44306$.

(7) Find the number of ways of arranging 6 boys and 6 girls in a row. In how many of them
     (i)   All the girls are together
     (ii)   No two girls are together
     (iii)   Boys & Girls come alternatively.

(OR)

(8) Find the number of ways of arranging 3 Mathematics, 2 physics & 1 chemistry books in a shelf such that the books of same kind are together.

III SEMESTER END EXAMINATION

Class	: II B.Sc (IOT)	Max Marks : 70
Subject	: Computer Science	Pass Marks : 28
Title of Paper	: OOPs with Python	Duration : 3 Hrs
Paper Code	: IOTOP 301/ ITPP301 / R201 OTOP 301	Time : 9am - 12 noon
W.E.F	: 2019-20	Date : 19-12-2023

SECTION-A

I. Answer any FIVE of the following questions   5X5=25M

1. Explain data types available in Python.
2. Explain string manipulation functions.
3. What is a directory? Explain its Properties and functions.
4. Write down the Procedure to executing a python Program.
5. Differentiate between Global and Local variables with example.
6. What are the operators available in python? Explain.
7. Explain command line arguments in python.
8. What is Regular expressions? Explain.

SECTION-B

II. Answer all of the following questions   5X10=50M

9.   Explain the conditional statements in python with syntax and example.

(OR)

10. Explain the history and features of python.

11. Explain about Lists in python. How to create a Lists?

(OR)

12. What is a tuple. Explain how to accessing and working with tuples.

13. Define function. Explain the types of functions in python.

(OR)

14. What is a Module? Explain how to importing a module

15. Write a program in python. How to read and write files in python.

(OR)

16. Explain about exception handling in python.

17. Explain about OOPs concept in python.

(OR)

18. Explain about multithreading in python.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II BCA, B.Sc (MPCS, MECS, MSCS, MCCS, DS) & B.Voc (WT)	
Subject	: Computer Science	Max Marks : 75
Title of Paper	: OOPS With Java/Programming in Java	Pass Mark : 30
Paper Code	: CBCSC301/CBBCA301/DSOJ301/WSPJ301/	Duration : 3 Hrs
W.E.F	: 2019-20 R20SPJ301/ R20 DSOJ301	Time : 9am - 12 noon
		Date : 19-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Discuss about Applets with Suitable examples?

2. Explain about Java Source File Structure?

3. Discuss about i) Data Types ii) Building Blocks of java

4. Discuss about Wrapper Classes in Java?

5. Discuss about Demon Threads and Thread groups in Java?

6. Explain about Checked and unchecked exceptions.

7. Discuss about file input stream and output stream?

8. Define and explain how to run a servlet?

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Discuss about different features of Java?

(OR)

10. Explain different concepts of OOPs?

11. Explain about identifiers and different Data Types in Java?

(OR)

12. Explain about Decision Making and Looping Statements in java?

13. Explain the different methods for handling exceptions java?

(OR)

14. Explain about Thread life cycle in detail with suitable examples?

15. What is Applet Tag? Explain with a suitable example?

(OR)

16. Define JDBC and explain its architecture in detail?

17. Explain about the life cycle of the servlet with suitable example?

(OR)

18. Explain the architecture of RMI?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MPCS/MECS/MSCS/MCCS)	Max Marks	: 60
Subject	: Computers	Pass Mark	: 24
Title of Paper	: Database Management System	Duration	: 3Hrs
Paper Code	: R20CSC301A	Time	: 9am – 12 noon
W.E.F	: 2022-23	Date	: 19-12-2023

SECTION-A

I. Answer any FIVE of the following questions.   5 X 4 = 20 M

1. What is the difference between data and information?

2. Write about IS A relationship and attribute inheritance.

3. Write about the advantages of ER model.

4. What is Relational DATA model?

5. Explain Domain Relational Calculus.

6. Explain about Commit and Rollback commands.

7. Explain about different set operations.

8. Explain data types in PL/SQL.

SECTION-B

II. Answer ALL of the following questions.   5 X 8 = 40 M

9. Explain the components of database management system.

(OR)

10. Briefly explain about database architecture.

11. What is attributing? Explain about classification of attribute?

(OR)

12. Explain basic concepts of EER Model?

13. Write about the advantages and disadvantages of relational algebra.

(OR)

14. Explain about Relational calculus in DBMS.

15. Explain about DML commands.

(OR)

16. What is a view? Explain about views.

17. Explain about looping control statements in PL/SQL.

(OR)

18. Briefly explain about triggers in PL/SQL.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II B.Voc (WT)   Max Marks : 60
Subject   : Computer Science   Pass Mark : 24
Title of Paper : Advanced Angular JS   Duration   : 3 Hrs
Paper Code   : R20WSAAJ303A   Time   : 9am - 12noon
W.E.F   : 2022-23   Date   : 20-12-2023

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions   **5X4=20M**

1. Explain the features of Angular2?

2. Explain about Angular2 Components?

3. What are Angular 2 Directives? Explain with examples?

4. Explain about Attribute binding in Angular2?

5. Explain about class binding in Angular2?

6. Explain about In-Built pipes in Angular 2?

7. Explain about custom Pipes in Angular 2?

8. Explain about Modules in Angular 2?

SECTION-B

II. Answer <u>ALL</u> the following Questions   **5X8=40M**

9. Explain about Angular 2 Architecture?

(OR)

10. Explain about Features of Angular 2?

11. Explain about container components in Angular 2?

(OR)

12. Explain about styling Angular2 components?

13. Explain about Angular attribute binding?

(OR)

14. Explain event Binding

15. Explain in detail about Angular2 templates?

(OR)

16. Discuss about Interfaces in Angular2?

17. Explain about Angular2 Routing?

(OR)

18. Explain in detail about Dependency Injection in Angular2?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Voc (WT)	Max Marks	: 75
Subject	: Computer Science	Pass Mark	: 30
Title of Paper	: Advanced Angular- JS	Duration	: 3 Hrs
Paper Code	: R20WSAAJ303/WSAAJ303	Time	: 9am–12noon
W.E.F	: 2022-23	Date	: 20–12–2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Explain the Features of Angular2.

2. Explain about Styling angular2 Components.

3. Explain about Attribute Binding in Angular2.

4. Explain about Class Binding in Angular2.

5. Explain about Built Pipes in Angular2.

6. Explain about Custom Pipes in Angular2.

7. Explain about Angular2 Life Cycle Hooks.

8. Explain Angular2 Error Handling.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Explain the Key Components of Angular2.

(OR)

10. Explain about Angular2 Architecture.

11. Explain about Angular2 Nested Components.

(OR)

12. Explain Angular Component input properties and output properties.

13. Explain Event Binding.

(OR)

14. Explain Two way Data Binding.

15. Explain about Angular2 templates.

(OR)

16. Explain about Angular2 directives.

17. Explain about routing in Angular2.

(OR)

18. Explain Angular2 Services.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MPCS, MECS, MSCS, MCCS)	Max Marks	: 75
Subject	: Computer Science	Pass Mark	: 30
Title of Paper	: Database Management System	Duration	: 3 Hrs
Paper Code	: R20CSC301	Time	: 9am – 12noon
W.E.F	: 2021-22	Date	: 19-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X5=25M**

1. What is Database Management System?

2. Explain the Advantages of DBMS.

3. Explain the feature of ER-MODEL.

4. Explain Components of ER-Model.

5. Explain Relational Data Model.

6. Explain various types of Keys.

7. Explain Sub-Queries.

8. Explain PL/SQL Program Structure.

SECTION-B

II. Answer ALL the following Questions   **5X10=50M**

9. Explain Drawbacks of File management System.

(OR)

10. Explain different types of Data Models.

11. Explain about EER Model.

(OR)

12. Write a note on a) Entities b) Attributes.

13. Explain the EF-CODD'S Rules.

(OR)

14. Explain Normal Forms with example.

15. Explain DDL and DML Statements with example.

(OR)

16. Write a note on a) Joins b) Views.

17. Explain Procedures in PL/SQL.

(OR)

18. Explain Triggers in PL/SQL and Give Examples.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.C.A (BCA)	Max Marks	: 75
Subject	: Computers	Pass Mark	: 30
Title of Paper	: Operating System	Duration	: 3 Hrs
Paper Code	: R20BCA303	Paper Time	: 9am–12noon
W.E.F	: 2021-22	Date	: 19-12-2023

SECTION – A

I. Answer any FIVE Of the following questions.   **5X5=25M**

1. Explain about process Management.

2. Explain operating system services.

3. Explain about CPU scheduler.

4. Explain about semaphores.

5. Explain Dead Lock necessary condition.

6. Explain about fragmentation.

7. Explain about swapping.

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 FCFS scheduling.

(OR)

12. Explain about Round – Robin scheduling.

13. Explain about the Dining – Philosophers problem.

(OR)

14. Explain methods for handling dead locks.

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.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.Com (Computers)	Max Marks	: 75
Subject	: Computer Science	Pass Mark	: 30
Title of Paper	: Programming with C & C++	Duration	: 3 Hrs
Paper Code	: R20COMC303	Paper Time	: 9am – 12noon
W.E.F	: 2021-22	Date	: 19-12-2023

SECTION – A

I. Answer any <u>FIVE</u> Of the following questions.   **5X5=25M**

1. Explain I/O functions in C language.

2. Explain different types of arrays with syntax.

3. What is function? Write procedure to create user defines function.

4. Explain the concept of Function over loading.

5. Describe the difference between C and C++.

6. Explain Unconditional branching statements.

7. Explain Destructor with example.

8. What is Inheritance? Explain multi-level inheritance?

SECTION –B

II. Answer ALL the following Questions   **5X10=50M**

9.   Briefly Explain C Tokens?

(OR)

10.   Explain conditional control statements in C?

11. (a) Explain String Handling functions in C?

(OR)

12. (b) Explain different types of Functions in C?

13. (a) Explain the concept of OOPs?

(OR)

14.   Explain the structure of C++.

15. (a) Briefly Explain about Function overloading with example?

(OR)

16.   Define Constructor? Explain types of constructors with example?

17. (a) What is Hierarchical Inheritance? Explain with example program?

(OR)

18. (b) Describe advantages and disadvantages of Inheritance?

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Com (Comp)	Max Marks	: 60
Subject	: Computer Science	Pass Mark	: 24
Title of Paper	: Programming With C & C++	Duration	: 3 Hrs
Paper Code	: R20COMC303A	Time	: 9 am – 12 noon
W.E.F	: 2023-24	Date	: 19-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain about Break and Continue statements.

2. Explain I/O functions in c language.

3. What is Recursion? Explain with example.

4. Define String? Explain initialization of string variables.

5. Explain the concept of function overloading.

6. Explain difference between C and C++.

7. Define Constructor with example.

8. Explain different Access specifies.

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain Structure of C program.

(OR)

10. Explain different operators available in C.

11. Explain different types of string handling functions.

(OR)

12. Explain different types of Functions in C.

13. Explain the concepts of OOPs.

(OR)

14. Explain the difference between normal function and static function with example.

15. Explain briefly about operator overloading with example.

(OR)

16. Explain about Unary operator with example.

17. Explain different types of Inheritance with example.

(OR)

18. What is difference between multi-level and multiple inheritance.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (DS) /B.Voc (WT)	Max Marks	: 60
Subject	: Computer Science	Pass Mark	: 24
Title of Paper	: OOPs With Java /Programming With Java	Duration	: 3 Hrs
Paper Code	: R20DSOJ301A/R20WSPJ301A	Time	: 9 am - 12 noon
W.E.F	: 2023-24	Date	: 19-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain about type Casting in Java?

2. Explain about Wrapper Classes?

3. Explain about switch statement with an example?

4. Explain about java API packages?

5. Explain about interfaces in java?

6. Explain about thread priority

7. Discuss about finally statement with an example?

8. Define and explain how to run a Applet?

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain about Java Program Structure?

(OR)

10. Explain different operators in java?

11. Explain the concept of Abstract classes with suitable example?

(OR)

12. Explain about Decision Making and Looping Statements in java?

13. What is multiple Inheritance? Explain how to achieve it through Interfaces?

(OR)

14. Explain about the process of creating and using the user defined packages in Java?

15. Explain about multiple catch statements?

(OR)

16. Explain Thread life cycle with an example?

17. Write a program to get input from the user in Applets?

(OR)

18. Explain the concept of adding Applet to html?

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   : 3 Hrs
Paper Code   : R20BCA303A   Time   : 9 am – 12 noon
W.E.F   : 2023-24   Date   : 19-12-2023

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions   **5X4=20M**

1. Explain about Storage Management.

2. Write about logical versus physical address space.

3. Explain about Inter process communication.

4. What is Synchronization. Explain.

5. Explain about CPU Scheduling.

6. Explain about Thrashing.

7. Discuss about Demand Paging.

8. Explain about Directory Structure.

SECTION-B

II. Answer <u>ALL</u> the following Questions   **5X8=40M**

9. Explain about the operating system Services

<div align="center">(OR)</div>

10. Explain different types of an Operating Systems

11. Explain about priority scheduling

<div align="center">(OR)</div>

12. Explain multiple levels Queues Scheduling

13. Explain deadlock Prevention techniques

<div align="center">(OR)</div>

14. Explain about deadlock detection and avoidance

15. Explain the Concept of FIFO Page Replacement

<div align="center">(OR)</div>

16. Write about Segmentation in Hardware

17. Explain the features of UNIX Operating System

<div align="center">(OR)</div>

18. Explain about different file operations

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class : II B.Voc (WT/IT)   Max Marks : 75
Subject : Computer Science   Pass Mark : 30
Title of Paper : E-Commerce   Duration : 3 Hrs
Paper Code : R20WSEC302/WSEC302/ITEC302   Time : 9am to 12pm
W.E.F : 2021-22   Date : 18|12|2023

SECTION-A

I. Answer any FIVE Questions   5X5=25M

1. Define E-commerce. Write its advantages and disadvantages.
2. Define EDI with its advantages.
3. What is Internal Commerce and how it is influenced global markets?
4. Write about limitations of online marketing
5. Write about E-check with its advantages.
6. Write about Supply Chain Management with its types
7. Write about Work-flow Automation and Coordination
8. Write about the concept of Digital Library.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Explain about E-commerce consumer applications

(OR)

10 Explain about B2C,B2B e-Commerce with their advantages and disadvantages

11. Explain about MIME with components

(OR)

12 Explain about EDI with its architecture.

13. Explain new forms of organizational Structure

(OR)

14 What are the advantages and disadvantages of virtual organizations?

15 Explain three approaches to marketing in e-Commerce

(OR)

16 Explain different online advertising paradigms

17 Explain EFT.

(OR)

18 Write in types of credit card based e-payment methods.

SECTION – A

I. Answer any FIVE Of the following questions.   5X5=25M

1. What are the Differences between Applet and Applications?

2. Explain Java Development kit?

3. Explain various string functions in java?

4. What is Array? Explain types of arrays in java?

5. Explain Thread Synchronization?

6. Explain the Thread priority in java?

7. Explain Random Access files?

8. Explain Advantages of Servlets?

SECTION –B

II. Answer ALL the following Questions   5X10=50M

9. Explain the Java features?

(OR)

10. Explain the java Program Structure?

11. Explain the different Data types in java?

(OR)

12. Explain the various types of Operators in java?

13. Define Thread? Explain the life cycle of a Thread in detail?

(OR)

14. Explain different Handling exceptions in java?

15. Explain the JDBC architecture?

(OR)

16. Explain the Applet life cycle in detail?

17. Explain the Networking classes in JDK?

(OR)

18. Explain Life Cycle of an Servlet?

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II BCA	Max Marks	: 60
Subject	: Computer Science	Pass Mark	: 24
Title of Paper	: Object Oriented Programming Through Java	Duration	: 3 Hrs
Paper Code	: R20BCA302A	Time	: 9am – 12 noon
W.E.F	: 2023-24	Date	: 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain about Java Development Kit?

2. What is the difference between OOP and procedure oriented programming?

3. Explain about Strings functions in Java?

4. Explain the procedure for user defined packages in Java?

5. Explain about thread priorities?

6. Explain Unchecked and Checked exceptions?

7. Explain Random Access files?

8. What is Servlet and how to run servlets?

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain about different OOPs concepts in Java?

(OR)

10. Explain the structure of Java?

11. Explain about different Data types in Java?

(OR)

12. Explain about Decision Making and Looping statements in Java?

13. Explain different ways of handling Exceptions in Java?

(OR)

14. Define Thread and explain the life cycle of thread with an example?

15. Explain HTML Applet Tag?

(OR)

16. Explain JDBC Architecture?

17. Explain Networking Classes in JDK?

(OR)

18. Explain the life cycle of a Servlet?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Voc (WT)	Max Marks	: 60
Subject	: Computer Science	Pass Mark	: 24
Title of Paper	: E-Commerce	Duration	: 3 Hrs
Paper Code	: R20WSEC302A	Time	: 9am - 12 noon
W.E.F	: 2023-24	Date	: 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. Define E-Commerce? Write its Advantages and Disadvantages?

2. Explain transmission of EDI messages through the internet?

3. Define EDI? What are the components of EDI?

4. Write about functions of SCM?

5. Write about Work-Flow Automation and Customization?

6. Write about the Concept of Digital Library?

7. Write about the limitations of online Marketing?

8. Write about risks associated with Electronic Payment system?

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. Explain about E-Commerce organization applications?

(OR)

10. Explain in detail about E-Commerce Framework?

11. Explain in detail about Value added networks?

(OR)

12. Write about EDI Implementation and applications of EDI?

13. Define SCM? Explain about Supply Chain Management Fundamentals?

(OR)

14. Explain about New forms of Organizational Structure?

15. Explain in detail about various types of digital documents?

(OR)

16. Explain different online advertising paradigms?

17. Explain in detail about Electronic Fund Transfer?

(OR)

18. Write about E-Cash, Smart Cards, Credit Cards? Explain legal and security issues?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class : II B.Sc (DS)   Max Marks : 60
Subject : Computer Science   Pass Mark : 24
Title of Paper : Data Mining And Data Analysis   Duration : 3 Hrs
Paper Code : R20DSDD301A   Time : 9.00Am – 12.00 Pm
W.E.F : 2023-24   Date : 16.12.2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. What is Knowledge representation in Data Mining.

2. What is Data Cleaning?

3. Explain Feature selection.

4. Describe Random Sampling.

5. What is boot Strap?

6. What is Associative Classification?

7. Explain about Density based method.

8. What is outlier analysis?

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. Explain the stages of Data mining process.

(OR)

10. Explain about the architecture of data mining.

11. Explain about Data Pre processing

(OR)

12. Explain about Association rule mining.

13. Explain the working & building of a decision tree.

(OR)

14. Explain how to evaluate the performance of a classifier.

15. Explain in detail about classification by back propagation.

(OR)

16. Explain support vector machines.

17. Explain in detail about clustering methods.

(OR)

18. Explain in detail about K-means.

SECTION – A

I. Answer any FIVE Of the following questions.   5X5=25M

1. What is data mining?
2. Explain the advantages and disadvantages of data mining.
3. Explain data cleaning.
4. Explain dimensionality reduction.
5. What is a boot strap?
6. Describe lazy learning.
7. What is grid based methods.
8. Write an algorithm for decision tree.

SECTION –B

II. Answer ALL the following Questions   5X10=50M

9. Explain the stages of data mining process.

(OR)

10. Explain about KDD process with a neat diagram.

11. Explain integration of Data mining system with a Data ware house.

(OR)

12. Explain about associate rule mining.

13. Explain the working and building of a decision tree.

(OR)

14. Explain how to evaluate the performance of a classifier.

15. Explain Bayesian classification.

(OR)

16. Explain classification by Back propagation.

17. Explain categorization of Major clustering methods.

(OR)

18. Explain model based methods and outlier analysis.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MPC, CBZ)	Max Marks	: 75
Subject	: Computer Science	Pass Mark	: 30
Title of Paper	: C Language	Duration	: 3 Hrs
Paper Code	: CBCL301	Time	: 09:00 to 12:00
W.E.F	: 2020-21	Date	: 15/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Explain about variables?

2. Define Programming? Explain types of programming Languages?

3. Explain I/O Functions?

4. Explain break and continue statements in C?

5. Explain while loop with an example?

6. Define array? Write a program to read and print 'n' numbers?

7. Write a program for Factorial of given number using Recursion?

8. Describe three categories of function prototype?

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Explain different Data Types in C with examples?

(OR)

10. Explain the structure of C?

11. What is operator? Explain different types of operators in C??

(OR)

12. Explain conditional control structure in C?

13. Explain Decision making statements in C?

(OR)

14. Explain looping statements in C with an example?

15. Explain about different string functions ?

(OR)

16. Give a brief account on Arrays?

17. What is function? What are the different types of function?

(OR)

18. How can we pass array variable as argument to function?

Roll No : _____   Regd No: _39_____

III SEMESTER END EXAMINATION

Class   :II B.Sc(MPC/MPCS)   Max Marks :75
Subject   : Physics   Pass Marks : 30
Title of Paper :Wave Optics   Duration   : 3 Hrs
Subject Code :CBPHY 301   Date   : 9am-12noon
W.E.F   : 2016-2017   Time   : 18-12-2023

PART-A

I Answer the following questions   **5 × 10 = 50 M**
   Each question carries 10 Marks

(1) Explain Spherical aberration. Deduce the condition for minimum spherical
    aberration in a combination of two lenses separated by a certain distance.

Or

2 What is Chromatic aberration and Achromatism? Derive the condition for
   achromatism when two lenses are separated by a distance.

3 Discuss change of Phase on reflection. Derive expression for oblique incidence
   of a plane wave on a thin film due to reflected light.

Or

4 Describe construction and working of Michelson interferometer and explain
   how wavelength of monochromatic light is determined.

5 Describe Fraunhoffer diffraction. Derive expression for intensity of normal incident light
   at a double slit and discuss its intensity distribution.

Or

6 Explain the construction and working of a Zone plate. Derive expression for its focal
   length.

7 Describe the construction and working of Nicol prism with necessary neat diagram.
   Explain how it can be used as polariser and analyser.

Or

8 What is Optical activity? Describe how specific rotation of optically active substance is
   determined using Laurent's half shade polarimeter with neat diagram.

9 Explain the principle of Holography. Describe the recording of a hologram and
   reconstruction of image from a hologram.

Or

10 What is an optical fibre? Describe the different types of optical fibres with necessary
   diagrams.

(P.T.O)

PART-B

II Answer any **THREE** of the following questions $3 \times 5\ M = 15\ M$

Each question carries 5 Marks

11. Write a short note on Coma with neat diagram.

12. Explain coherence.

13. Compare a zone plate with a convex lens.

14. Distinguish between Quarter wave plate and Half wave plate.

15. Mention any five applications of LASER.

PART-C

III Answer any **TWO** of the following questions $2 \times 5\ M = 10\ M$

Each question carries 5 Marks

16. Calculate the focal length of a lens of dispersive power 0.031 which should be placed in contact with a convex lens of focal length 84 cm and dispersive power 0.021 to make the combination achromatic.

17. In Newton's ring experiment the diameter of the 10th ring is 0.433 cm. Find the wavelength of the incident light if the radius of curvature is 70 cm.

18. A grating has surface ruled with 90000 lines/cm. What is the resolving power of grating in the first order.

19. A ray of light is incident on the surface of a glass plate of refractive index 1.55 at the polarising angle . Calculate the angle of refraction.

20. A sugar solution of specific rotation 52° per decimeter per gram per c.c. causes a rotation of 12° in a column of 10 cm long. What is the concentration of the solution?

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SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain the working of Op-Amp Subtractor.

2. Explain the working of Op-Amp Logarithmic Amplifier.

3. Explain the working of Schmitt's trigger?

4. Explain the working of Triangular wave generator?

5. Explain the need for modulation.

6. Explain the side band frequencies of AM wave.

7. Explain the side band frequencies of FM wave.

8. Explain Radio Broadcasting and Reception.

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Draw and explain the block diagram of Operational Amplifier?

(OR)

10. Explain the working of Op-Amp Integrator and Differentiator.

11. Draw and explain the functional block diagram of IC 555 Timer?

(OR)

12. What is Active filter? Explain the Low, high and band pass filters?

13. What is Amplitude modulation? Discuss the frequency spectrum of AM wave.

(OR)

14. What is Detection? Describe the working of a diode detector for AM waves.

15. Draw and explain how FM waves can be detected using PLL method?

(OR)

16. Explain the generation of FM modulation by using varactor diode.

17. Draw the block diagram of FM Transmitter and explain each block.

(OR)

18. Draw the block diagram of FM Superheterodyne receiver and explain each block.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MPC & MPCS)	Max Marks	: 60
Subject	: Physics	Pass Mark	: 24
Title of Paper	: Heat And Thermodynamics	Duration	: 3 Hrs
Paper Code	: R20PHY301A	Time	: 9am – 12 noon
W.E.F	: 2023-24	Date	: 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain the transport phenomena.

2. State and explain Carnot's theorem.

3. Show that the entropy increases in an irreversible process.

4. Derive expression for ratio of C_p to C_v

5. Explain the principle and working of refrigerator.

6. Define solar constant. Give its significance.

7. A reversible engine works between two temperatures whose difference is 100^0 C. If it Absorbs 746 J of heat from the source and gives 546 J of heat to the sink, then calculate the temperatures of source and sink.

8. Calculate the temperature of the sun from the following data $S=1.34 KW/m^2$, radius of the Sun$=7.92 \times 10^5$ km. Distance of the sun from the earth$=1.5 \times 10^5$ km and Stefan's constant is $5.7 \times 10^{-8} W/m^2/K^4$?

SECTION-B

II. Answer any FIVE of the following Questions   **5X8=40M**

9. Deduce Maxwell's law of distribution of molecular speeds of a gas on the basis of Kinetic theory of gases

(OR)

10. On the basis of kinetic theory of gases, derive an expression for Viscosity of gas and discuss the conclusion.

11. State and prove carnot's theorem.

(OR)

12. What is T-S diagram? How efficiency can be determine from it. Mention its uses.

13. What are thermodynamic potentials? Derive Maxwell's thermodynamic relations from thermodynamic potentials.

(OR)

14. What is Joule-Kelvin effect? Explain the Joule-Kelvin effect from Maxwell's Thermodynamic relations.

15. What is Joule-Thomson effect? Obtain the expression for cooling produced when gas suffers Joule-Thomson effect.

(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. What is solar constant? Determine the temperature of the Sun.

SECTION –A

I. Answer ALL the following Questions   **5X10=50M**

1. (a) Derive an expression for Maxwell's Law of molecular speeds in a gas.

(OR)

(b) Derive an expression for the coefficient of viscosity of a gas on the basis of kinetic theory of gases.

2. (a) Explain the working of Carnot's engine and derive an expression for its efficiency.

(OR)

(b) Explain the second law of thermodynamics. State and prove Carnot's theorem.

3. (a) What are thermodynamic potentials? Derive Maxwell's thermodynamic relations from thermodynamic potentials.

(OR)

(b) Explain specific heats C_P and C_v of a gas. Derive an expression for ratio of C_p to C_v.

4. (a) Explain adiabatic demagnetization method with necessary theory for producing low temperatures.

(OR)

(b) What is Joule Kelvin effect? Describe Porous plug experiment and give the results.

5. (a) State Plank's hypothesis. Derive Plank's law of black body radiation.

(OR)

(b) Define solar constant. Describe how the solar constant is determined by using Angstrom's Pyrheliometer.

SECTION – B

II. Answer any THREE Of the following questions.   **3X5=15M**

6. Explain the transport phenomena on the basis of kinetic theory of gases.

7. Show that the change in entropy in a reversible cycle is zero.

8. Derive Clausius-Clayperon's equation.

9. Explain the principle and working of refrigerator.

10. State and explain Stefan's-Boltzmann law.

(P.T.O)

III. Answer any TWO Of the following questions.   **2X5=10M**

11. The r.m.s. speed of hydrogen molecule is 1.84 km/sec. What will be the r.m.s. speed of oxygen molecule at the same temperature.

12. Calculate the efficiency of a reversible heat engine working between the temperatures 200^0 C and 120^0 C.

13. Calculate the change in entropy when 1kg of ice at 0^0 C is converted into water at the same temperature. L of ice = 0.336×10^6 J/kg.

14. In an atomic explosion, the maximum temperature produced was of the order of 10^7 K. Calculate the wavelength of maximum energy. Wien's constant is 0.292 cm K.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Sc (MPC, MCCS,CBZ)	Max Marks : 60
Subject	: Chemistry	Pass Mark : 24
Title of Paper	: Organic Chemistry And Spectroscopy	Duration : 3 Hrs
Paper Code	: R20CHE301A	Time : 9am-12noon
W.E.F	: 2023-24	Date : 20-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain the differentiation of 1°, 2° and 3° alcohols by Victor-Meyer's test.

2. Write a short note on the preparation of phenols.

3. Write a note on Clemmensen and Wolf-Kishner reductions.

4. Write one preparation and one synthetic application of diethyl malonoate.

5. Explain Arndt-Eistert synthesis.

6. Define Chromophore and Auxochrome with an example.

7. Describe Equivalent and Non-equivalent protons with examples.

8. Write a short note on Finger print region.

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain the mechanism and stereo chemistry of SN^1 and SN^2 reactions in alkyl halides.

(OR)

10. Explain the following reactions with mechanism

     i) Pinacol – Pinacolone rearrangement   ii) Riemer – Tiemann reaction

11. Explain the following reactions with mechanism

     i) Aldol condensation   ii) Perkin reaction

(OR)

12. Write the preparation and any two synthetic applications of ethyl acetoacetate.

13. Explain the following reactions

     i) Huns-Diecker reaction   ii) Hell-Volhard-Zelinsky reaction.

(OR)

14. Write one preparation and any two reactions of esters and amides.

15. Explain various types of electronic transitions in electronic spectroscopy.

(OR)

16. Explain the following

  i) Chemical Shift   ii) Spin-Spin coupling

17. Write Woodward-Fieser rules for calculating λ_{max} of conjugated Dienes and α,β-unsaturated compounds.

(OR)

18. Give the I.R interpretation for alcohols, aldehydes, ketones and carboxylic acids.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II B.Sc (MPC, MCCS, CBZ)   Max Marks : 75
Subject   : Chemistry   Pass Mark : 30
Title of Paper   : Organic Chemistry And Spectroscopy Duration : 3 Hrs
Paper Code   : R20CHE301   Time   : 9 am–12 noon
W.E.F   : 2020-21   Date   : 20-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Explain the Mechanism for Pinacol – Pinacolone Rearrangement.

2. Explain any two Methods for the Preparation of Alcohol.

3. Write the Mechanism of Claisen Ester Condensation.

4. Write the Reaction and Mechanism of perkin Reaction

5. Explain the effect of Substituent on acidic strength of Mono – Carboxylic acid.

6. Explain Beer – Lambert's Law.

7. Explain the NMR Splitting in acetaldehyde.

8. Write a Short Note on Finger print Region.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Give the mechanism & Stereo chemistry of SN^1 & SN^2 Reactions of Alkyl Halides.

(OR)

10. Differentiate 1^0, 2^0, 3^0 – Alcohols by using the following tests.
    (a) Lucas Test.   (b) Victor Mayer Test.

11. Discuss the Reaction and Mechanism of following the Reactions
    (a) Aldol Condensation.   (b) Benzoin Condensation.

(OR)

12. Write the Preparation and any two Synthetic Application of Diethyl Malonate

13. Discuss the Following Reactions in detail
    (a) Hunds – diecker Reaction. (b) HVZ Reaction.

(OR)

14. Describe any two Properties of amides and esters.

15. Discuss Different types of electronic transitions in molecules.

(OR)

16. Discuss the NMR Splitting in the following compounds
    (a) Toluene   (b) Acetophenone.

17. Write Woodward – Fieser rules for Calculating λmax for Conjugated dienes and apply them for one Example.

(OR)

18. Discuss different types of Molecular Vibrations.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.Sc.	Max Marks	: 50
Subject	: Chemistry	Pass Mark	: 20
Title of Paper	: Environmental Audit	Duration	: 2 Hrs
Paper Code	: R20SDC301C	Paper Time	: 9am - 11am
W.E.F	: 2021-22	Date	: 13.12.2023

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 water pollution and its impact?

3. What is BOD and explain its significance in determining the quality of water?

4. What are the objectives of the environmental acts and Environmental laws?

5. What are the institutional arrangements?

6. Write a note on Environmental act, 1986.

7. What are objectives of Environmental Audit?

8. What is GOI notification on Environmental audit.

SECTION –B

II. Answer any THREE Of the following Questions   **3X10=30M**

9. What is Air pollution and explain in detail about the Air pollutants.

10. What is Soil pollution and explain in detail about the soil pollutants.

11. Write an essay on the Water (prevention and control of pollution) Cess Act 1977, amended in 1991.

12. Write an essay on Air (prevention and control of pollution) act 1981 amended in 1987.

13. What is environmental audit and explain the various stages involved in it and the benefits of environmental audit to the industry.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class : II B.Com (Gen,TP, Comp, Log) BBA & BCA
Subject : Commerce
Title of Paper : Retailing
Paper Code : R20SDC302B
W.E.F : 2021-22

Max Marks : 50
Pass Mark : 20
Duration : 2 Hrs
Time : 9am – 11am
Date : 13.12.2023

SECTION-A

I. Answer any <u>FOUR</u> Questions   4X5=20M

1. Role of retailing

2. Importance of retailing

3. Store location

4. Merchandise planning

5. Visual merchandising

6. Service to customer in retailing

7. Various duties of customer care

8. Objective of retailing

SECTION-B

II. Answer any <u>THREE</u> of the following Questions   3X10=30M

9. Explain the factors influencing the growth of retailing in India?

10. Briefly explain different types of retailing?

11. How different factors influencing selection of location?

12. Briefly explain different types of retail outlets?

13. Briefly explain visual merchandising activities?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II Degree (All Groups)	Max Marks	: 50
Subject	: Foundation Course	Pass Mark	: 20
Title of Paper	: Environmental Education	Duration	: 2 Hrs
Paper Code	: R20LSC304	Paper Time	: 9am – 11 am
W.E.F	: 2021-22	Date	: 11.12.2023

SECTION – A

I. Answer any <u>FOUR</u> Of the following questions.   4X5=20M

1. Water Resources.

2. Forest Resources.

3. Non-Renewable Energy Resources.

4. Ozone Layer Depletion.

5. Soil Erosion.

6. Kyoto Protocol.

7. Afforestation.

8. Biological, Industrial and Solid Wastes in Urban area.

SECTION –B

II. Answer any <u>THREE</u> Of the following Questions   3X10=30M

9. Explain Nature, scope and importance of Environment Education.

10. What is Biodiversity? Explain levels of Biodiversity.

11. Explain about various types of pollutions.

12. What is Deforestation? Explain its causes and effects.

13. Explain about various laws for environmental protection.

14. Explain about Threats to Biodiversity.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class : II B.Sc (CBZ)	Max Marks : 60
Subject : Zoology	Pass Mark : 24
Title of Paper : Cell Biology, Genetics, Molecular Biology and Evolution	Duration : 3 Hrs
Paper Code : R20ZOO301A	Time : 9am - 12 noon
W.E.F : 2023-24	Date : 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Ribosomes

2. Haemophilia

3. Y-Linked inheritance

4. Muations

5. Transcription

6. Pedigree analysis

7. Germ plasm theory

8. Genetic drift

SECTION-B

II. Answer any FIVE of the following Questions   **5X8=40M**

9. Explain the fluid mosaic of plasma membrane

(OR)

10. Write an essay on the structure and functions of Endoplasmic reticulum

11. Write an essay on Sex determination in animals

(OR)

12. Discuss X-linked recessive inheritance with suitable examples

13. Write an essay on chromosomal disorders

(OR)

14. Discuss the basic concept of genomics and a note on its applications

15. Write an essay on DNA replication

(OR)

16. Write an essay on LAC OPERON model of gene regulation

17. Explain the modern synthetic theory of evolution

(OR)

18. Write an essay on speciation

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 & Biodiversity   Duration : 3 Hrs
Paper Code   : R20BOT301A   Time : 9.00 Am - 12.00 Pm
W.E.F   : 2023-24   Date : 16.12.2023

SECTION-A

I. Answer any **FIVE** of the following Questions   5X4=20M

1. Rose Wood

2. Types of Ovules

3. Ecological Pyramids

4. Growth Curves

5. Density

6. Valve of Biodiversity

7. Mortality

8. Double Fertilization.

SECTION-B

II. Answer any **FIVE** of the following Questions   5X8=40M

9. Describe the anomalous Secondary growth in Boerhavia

(OR)

10. Explain the Organisation of Apical meristem tic fissue in the shoot tip.

11. Give an account on megasporogenesis in angiosperms related to monosporic type of Embryosac

(OR)

12. Explain different types of Endosperms in Angiosperm Plant.

13. Describe the effect of light on Vegetation and growth of plants.

(OR)

14. Give a detailed account on components of Ecosystem.

15. What are the main factors influence the population ecology.

(OR)

16. Describe the components of Grassland Ecosystem.

17. Explain concept and scope of Biodiversity.

(OR)

18. Describe roles of NBPGR and NBA

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class : II BBA
Subject : Commerce
Title of Paper : Financial Management
Paper Code : R20BBA303
W.E.F : 2022-23

Max Marks : 75
Pass Mark : 30
Duration : 3 Hrs
Time : 9 am – 12 noon
Date : 19-12-2023.

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Profit Maximization

2. Dividend decisions

3. What do you mean by return on investment

4. Capital budgeting process

5. Write about Working Capital

6. Benefits of Cash Management

7. Cost of Capital

8. Walter's dividend model

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Define Finance ? Explain its nature and scope

(OR)

10. Discuss the role of Financial Manager in an Organization

11. What are the factors influencing Capital Expenditure decisions

(OR)

12. A firm whose cost of capital is 10% is considering two mutually exclusive projects
X and Y, the cash flows of which are given as follows :

Year	Project X RS.	Project Y RS.	P.v. Factor At 10%
0	- 120000	- 90000	1
1	80000	60000	.909
2	80000	60000	.826

Suggest which project should be taken up using :
(i) Net Present Value Method
(ii) Profitability Index Method

13. Explain the factors influencing Working Capital Management

(OR)

14. Prepare an estimate of working capital requirement from the following information of a trading concern :

[P.T.O

a) Projected annual sales 1,00,000 units
b) Selling price Rs.8 per unit
c) % age of net profit on sales 25%
d) Average credit period allowed to customers 8 weeks
e) Average credit period allowed by suppliers 4 weeks
f) Average stock holding in terms of sales requirement 12 weeks
g) Allow 10% for contingencies

15. Explain the factors influencing Capital Structure

(OR)

16. The following figures relate to Arvind Ltd Company

Particulars	Rs. (in Lakhs)
Sales	1000
Variable Costs	300
Contribution	700
Fixed Costs	400
EBIT	300
Interest	100
Profit Before Tax	200

You are required to calculate the operating, financial and combined leverage.

17. Explain the determinants of dividend policy

(OR)

18. The earning per share of company are Rs.8 and the rate of capitalization applicable to The company is 10%. The company has before it an option of adopting a payout ratio of 25%. Using Water's formula of dividend payout, compute the market value of the company's share if the productivity of retained earnings is (a) 15% (b) 10% and (c) 5%

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II BBA   Max Marks : 60
Subject   : Commerce   Pass Mark : 24
Title of Paper : Financial Management   Duration   : 3 Hrs
Paper Code   : R20BBA303A   Time   : 9 am - 12 noon
W.E.F   : 2023-24   Date   : 19-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. Explain about Business Finance?

2. What are the aims of Financial Management?

3. What is the nature of Capital Budgeting?

4. Write a short notes on Payback Period.?

5. What is Working Capital?

6. What is EOQ?

7. What is meaning of Preferential Shares?

8. What is Dividend Policy?

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. Explain the functions of Financial Management?

(OR)

10. Explain various goals in Financial Management.

11. Explain various types of Capital Budgeting?

(OR)

12. Suresh confectionary ltd. Is contemplating the purchase of machinery. Two machines A and B are available in the market each costing to be as under.

Cash inflows after tax		
Year	Machine A	Machine B
Cost of investment	5,00,000	5,00,000
1	1,50,000	50,000
2	2,00,000	1,50,000
3	2,50,000	2,00,000
4	1,50,000	3,00,000
5	1,00,000	2,00,000

Indicate which machine will be more profitable investment using the NPV and IRR methods assuming 10% rate of discount.

13. Explain various factors determining Working Capital?

(OR)

14. Management of XYZ ltd seeks your assistance on assessing the working capital requirements for an activity level of 1, 00,000 units of output for the year 2023. The cost details of the product are as follows

[P.T.O]

Particulars	cost per unit Rs.
Raw material	20
Direct labour	5
Overheads	15
Total cost	40
Profit	10
Sales	50

The other details are

a) In order to ensure smooth flow of production, two months raw material 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 is maintained Rs.25, 000

f) Assuming that product process is uninterrupted and even during the year.

g) Lag in payment of overheads 1 month.

Compute the amount of working capital required for the given level of activity.

15. Explain the different theories in Capital Structure?

(OR)

16. Determine the Earning Per Share of a company which has operating profit of Rs. 4, 80,000.Its capital structure consists of the following securities.

Securities	Amount in Rs.
10 % Debentures	15, 00,000
12% Preference Shares	3, 00,000
Equity Shares @ Rs.100	12, 00,000

The company is in the 55% tax bracket.

17. Explain Walter's model of Dividend?

(OR)

18. Give the following information about ABC limited, show the effect of the dividend policy on the share market price of its shares, using the Walter's model:

Equity Capitalisation rate (ke) = 12%

EarningsPer Share (E) = Rs.8

Assumed Returns on Investment ® 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 (a).25% (b) 50%   (c)75% and (d) 100%.

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 : 3 Hrs
Paper Code   : R20COMT303A   Time   : 9 am - 12 noon
W.E.F   : 2023-24   Date   : 19-12-2023

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions   **5X4=20M**

1. Define Banking?

2. Credit Creation.

3. What is REPO Rate?

4. Write a short notes on Open Market Operations(OMOs)?

5. Indigenous Banks.

6. Define Customer?

7. KYC Norms.

8. What is meant by Offshore Banking?

SECTION-B

II. Answer the following Questions   **5X8=40M**

9. Explain various types of Banks?

(OR)

10. Explain the function of Commercial Banks ?

11. Explain RBI and its Organizational Structure?

(OR)

12. Explain the Credit control measures of RBI?

13. What are the advantages and disadvantages of Internet Banking?

(OR)

14. Explain the terms ATM, RTGS, NEFT and Debit Cards?

15. Define NABARD and Explain Its Functions?

(OR)

16. Define SIDBI and Explain Its Functions?

17. Duties and responsibilities of Collecting Banker?

(OR)

18. Special relationship between Banker and Customer ?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II B.Com (Gen)   Max Marks : 60
Subject   : Commerce   Pass Mark : 24
Title of Paper : Marketing   Duration   : 3 Hrs
Paper Code   : R20COMG303A   Time   : 9am – 12 noon
W.E.F   : 2023-24   Date   : 19-12-2023

SECTION-A

I. Answer any FOUR of the following Questions   **5X4=20M**

1. What is Marketing Mix?

2. Define the term Marketing?

3. Buying Behavior Models?

4. What is Market Segment?

5. Product Life Cycle?

6. Determination Of Price?

7. Skimming and penetrating?

8. Sales promotion?

SECTION-B

II. Answer the following Questions   **5X8=40M**

9. Explain the Marketing Environment?

(OR)

10. What is Marketing Mix? It is practice or reactive in nature.

11. What are the advantages of Segmentation?

(OR)

12. Explain various types of Market Segmentation?

13. Explain the Product Mix and Product Line Decisions?

(OR)

14. Explain the terms Design, Branding, Packing and Labeling?

15. Explain different types of Price Strategies?

(OR)

16. What are the factors influencing Price?

17. What are advantages and disadvantages of Publicity?

(OR)

18. Explain the terms Personal Selling and Direct Marketing?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Com (Log)	Max Marks	: 60
Subject	: Commerce	Pass Mark	: 24
Title of Paper	: Material Management	Duration	: 3 Hrs
Paper Code	: R20COML303A	Time	: 9am – 12 noon
W.E.F	: 2023-24	Date	: 19 – 12 -2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. What is Material Management?

2. Supply Chain Management ?

3. Explain the objectives of Material Planning?

4. Write about G O L F?

5. What is Material Handing?

6. Explain about Direct Material & Indirect Material?

7. What is Material Codification?

8. Write about Kodak System?

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain the Functions of Material Management?

(OR)

10. Distinguish between Material Management & Supply chain management?

11. Explain the importance of Material Control?

(OR)

12. What is Material Planning? Explain the techniques of Material Planning?

13. Write about Types of material Handling Equipment?

(OR)

14. Explain the classification of materials Handling Equipment?

15. Explain Types of Material Classification?

(OR)

16. What is the need for classification of Materials?

17. Explain the Process of Codification?

(OR)

18. Explain the system of codification?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II BBA   Max Marks : 75
Subject   : Commerce   Pass Mark : 30
Title of Paper : Human Resource Management   Duration : 3 Hrs
Paper Code   : R20BBA302   Time   : 9am – 12 noon
W.E.F   : 2021-22   Date   : 18-12-2023

SECTION-A

I. Answer any FIVE Questions   5X5=25M

1. State the benefits of Training.

2. Scope of HRM

3. Define HRM.

4. Role of Induction Programmes

5. Process of HRM

6. What is Job Specification?

7. What is Carrier Planning and Development?

8. Role of Culture in International Management.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9.) Explain Differences between Personal Management Vs HRM.

[OR]

10. Define HRM, Explain it's Objectives & Importance.

11. a) Explain the Process of Job Analysis.

[OR]

12. b) Explain Recruitment and Selection Process.

13. a) Explain various Training Methods.

[OR]

14. b) Explain Various Techniques involved in Carrier Planning and Development.

15. a) Explain Importance and Concepts of Performance Appraisal.

[OR]

16. b) Explain Objectives and Basic Components of Compensation.

17. a) Define International HRM? Explain the role of Culture in International HRM.

[OR]

18. b) Explain the Concept of Quality of Work life.

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 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
F	5	9	8	12	10	4	3	2

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: 60

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class	: II B.Com (GEN, TP, COMP, & LOG)	Max Marks	: 75
Subject	: Commerce	Pass Mark	: 30
Title of Paper	: Business Statistics	Duration	: 3 Hrs
Paper Code	: R20COM302	Paper Time	: 9am - 12noon
W.E.F	: 2021-22	Date	: 18-12-2023

SECTION – A

5X5=25M

I. Answer any FIVE Of the following questions.

1. Explain the meaning and definition of Statistics.
2. Explain the Importance of Statistics.
3. What is Arithmetic Mean 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. Prepare a Histogram from the following data.

Wages in Rs.	10 - 20	20 - 30	30 - 40	40 -50	50 - 60	60 - 70	70 - 80
F	60	140	110	150	120	100	90

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)

(PTO)

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Com (Gen,Tp,Log,Comp)	Max Marks	: 60
Subject	: Commerce	Pass Mark	: 24
Title of Paper	: Business Statistics	Duration	: 3 Hrs
Paper Code	: R20COM302A	Time	: 09:00 to 12:00
W.E.F	: 2022-23	Date	: 18/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. Write the features of the business statistics
2. What are the features of a good Questionnaire
3. What are the advantages of Central Tendency
4. Explain about Geometric Mean
5. Discuss the concept Dispersion
6. Probable error – Discuss
7. Explain the importance of Correlation
8. Explain types of Skewness

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. What are the advantages and disadvantages of Statistics ?

(OR)

10. From the following data draw simple bar diagram

Item	Food	Cloth	Rent	Education	Entertainment	medicine
Expenditure	40	20	10	10	15	5

11. What are the essentials of a good average?

(OR)

12. From the following data calculate Arithmetic Mean

C. I	Less than 10	Less than 20	Less than 30	Less than 40	Less than 50	Less than 60	Less than 70
Frequency	7	18	35	56	70	76	80

13. Write about uses of Dispersion.

(OR)

14. Compute Standard Deviation from the following data?

C.I	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 Kurtosis.

(OR)

16. From the following data Calculate Skewness by using Bowley formula.

Mid values	10	20	30	40	50	60	70	80	90	100
frequency	2	9	11	14	20	24	20	16	5	2

17. Discuss about Correlation.

(OR)

18. Calculate the Spearman's Rank Correlation coefficient for the following data.

X	20	25	33	17	38	60	30	70
Y	35	36	45	38	20	10	30	50

2015 March	Particulars	Rs.
1	Ramu Started Business with	60,000
2	Paid into Bank	20,000
4	Bought goods for cash	10,000
12	Sold goods for cash	20,000
17	Purchased Furniture from Vijay	5,000
18	Sold goods to Ganesh	10,000
19	Withdraw from the Bank for personal use	5,000
20	Purchase goods from Ramu	5,000
25	Interest received	200
30	Salaries Paid	1,000

11. Following is the Trial Balance of Shukla as on 31-12-2016

Particulars	Dr Rs.	Cr Rs.
Capital and Drawings	10,000	90,000
Purchase and sales	21,900	51,800
Returns	800	500
Debtors and Creditors	16,100	30,000
Discount	1,000	2,200
Opening Stock	12,000	
Wages	1,840	
Furniture	2,560	
Motor Car	24,000	
Buildings	60,000	
Rent & Rates	900	
Advertisements	1,300	
Salaries	8,200	
Insurance	3,400	
Interest		1,500
Cash	12,000	
	1,76,000	**1,76,000**

Adjustments:-

a) Closing stock Rs. 25,000

b) Outstanding wages Rs. 160

c) Prepaid insurance Rs. 400

Prepare the trading and profit and loss account and balance sheet of Shukla.

(OR)

12. Give the proforma of Trading and profit and loss account and Balance sheet

13. From the following particulars, prepare three columns cash book of Hari Charan.

2008 November	Particulars	Rs.
1	Cash Balance	58,000
	Bank Balance	30,000
5	Cash Sales	5,000
6	Paid into bank	25,000
8	Cash received from Mohan	2,000
10	Cash withdrawn from bank for office use	2,000
18	Bought machinery paid by cheque	10,000
21	Received commission	800
25	Purchases paid through cheque	4,000
30	Paid to Vardan by cheque	7,000

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class   : II BCA
Subject   : Commerce
Title of Paper : Financial Accounting - I
Paper Code   : CBAFM301
W.E.F   : 2016-17

Max Marks : 75
Pass Mark : 30
Duration : 3 Hrs
Time   : 09:00 to 12:00
Date   : 18/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Rules of Double Entry Book-keeping
2. Write about contra entry
3. Debit Note and Credit Note
4. Petty Cash Book
5. Prepare Trial Balance from the following

Particulars	Rs.
Capital	30,000
Drawings	4,500
Purchases	39,000
Sales	30,000
Salaries	15,000
Wages	1,500

6. Prepare Cash Ledger Account from the following transactions

2014 June	Particulars	Rs.
1	Purchased goods for cash	11,000
2	Goods sold for cash	32,000
3	Paid wages	8,000
4	Sold goods to Ramana on credit	9,000
5	Received Commission	7,000

7. Rectification of errors
8. Journalise the following transactions

2015 March	Particulars	Rs.
1	Started Business with Cash	1,98,000
1	Paid into Bank	70,000
2	Bought goods for cash	30,000
3	Purchased Furniture	15,000
4	Drew Cash from Bank	20,000

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9. Define Accounting, write the Advantages of Accounting.

(OR)

10. Journalise the following Transactions

[P.T.O]

(OR)

14. Enter the following transactions in Suitable Subsidary books.

2014 Oct	Particulars	Rs.
1	Purchased goods from Venkatesh	17,000
3	Sold goods to Sachin	33,000
4	Returned goods to Venkatesh	1,000
5	Bought goods from Suresh	16,000
6	Goods returned by Sachin	2,000
7	Goods Sold to Mohan	27,000
8	Returned goods to Suresh	1,000
9	Mohan returned goods	1,000

15. Prepare a Bank Reconciliation Statement from the following

	Particulars	Rs.
a)	Balance as per cash book	10,000
b)	Cheques issued but not presented	1,500
c)	Cheques paid into the Bank but not collected	1,000
d)	Interest credited in pass book only	100
e)	Cheques received entered in cash book but omitted to bank	500
f)	Bills collected and credited in pass book only	2,000
g)	Commission charged and debited in pass book	150
h)	Wrong debit in pass book	800

(OR)

16. Prepare Bank Reconciliation Statement from the following

	Particulars	Rs.
a)	Overdraft as per pass book	3,540
b)	Cheques drawn but not presented	2,800
c)	Cheques paid into the Bank but not collected	3,900
d)	Interest on overdraft as per pass book only	100
e)	Insurance premium paid by the bank not enter in cash book	400

17. Rectify the following errors

	Particulars
a)	Goods purchased from Mani for Rs. 300 passed through sales book.
b)	Received a bill from Arun for Rs. 500 passed through bills payable book.
c)	An item of Rs. 150 relating to prepaid rent has omitted to be brought forward.
d)	Rs. 500 paid to Hari were debited to Giri account.
e)	Sales day book was overcast by Rs. 200
f)	Goods sold to Krishna for Rs. 430 has been credited as Rs. 340.
g)	Salaries paid Rs. 890 posted to salaries account as Rs. 980.

(OR)

18. Rectify the following errors

	Particulars
a)	Goods sold to Rama Rs. 1000 were not posted to his account.
b)	Purchase book was overcast by Rs. 400.
c)	Sales book was undercast by Rs. 53.
d)	Purchase returns book was undercast by Rs. 16.
e)	Cash received from Govind Rs. 111 was posted to his account as Rs. 1,111.
f)	Payment of Rs. 140 rent debited to Landlord a/c.
g)	Cash paid to Raghu Rs. 770 was posted to his account as Rs. 170.

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KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II BBA   Max Marks : 60
Subject   : Commerce   Pass Mark : 24
Title of Paper : Human Resource Management   Duration : 3 Hrs
Paper Code : R20BBA302A   Time   : 9am – 12noon
W.E.F   : 2022-23   Date   : 18-12-2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. Importance of HRM

2. Job analysis

3. Promotion

4. Objectives of training

5. Benefits of training

6. Job evaluation

7. Process of performance appraisal

8. Quality of work life

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. Explain the duties and responsibilities of HR manages

(OR)

10. Explain the history and evolution of HRM

11. Define Recruitment? Explain the sources of recruitment

(OR)

12. Discuss in detail the various steps involved in selection process

13. Explain the process of executive development

(OR)

14. Discuss the objectives and process of career planning

15. Define compensation management? Explain its components

(OR)

16. Explain the various methods of performance appraisal

17. Discuss the difference between domestic HRM and international HRM

(OR)

18. Explain the objectives of international human resource management

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B. Com (Gen, TP, Comp, Log)	Max Marks	: 75
Subject	: Commerce	Pass Mark	: 30
Title of Paper	: Advanced Accounting	Duration	: 3 Hrs
Paper Code	: R20COM301	Time	: 09:00 to 12:00
W.E.F	: 2019-20	Date	: 16/12/2024

SECTION-A

I. Answer any FIVE of the following Questions   5X5=25M

1. Meaning of Non-Profit Organisation.

2. Statement of Affairs

3. Hire Purchase System

4. Essential features of Partnership.

5. What is meant by dissolution?

6. Entrance fees Vs Life membership.

7. Cash Price Vs Instalment price

8. Revaluation Account.

SECTION-B

II. Answer ALL the following Questions   5X10=50M

9) What is Receipt and Payment account? Distinguish between Receipt and Payment a/c and Income Expenditure a/c.

(OR)

9) From the following Trail Balance, Prepare an Income & Expenditure a/c of Delhi Club for the year ended 31st December 2019 and Balance Sheet as on that date after considering the following adjustments.
   1. Depreciate Furniture by 10%, Billiards Table by 20% and Glass & Cutlery by 30%
   2. of the Subscriptions Rs.400/- is received in advanced and Rs.250/- is arrears.
   3. Rs.300/- is owing for salaries to staff.

Trial Balance

Particulars	Amount	Particulars	Amount
Furniture	2,500	Membership Subscription	10,500
Billiards Table	1,250	Sundry Receipts from Billiards	1,743
Glass & Cutlery	333	Sale of Tickets for Entertainment	3,234
Repairs	734	Sundry Creditors	2,600
Salaries and wages	2,262	Entrance Fees	448
Rent and Telephone	3,194	Capital Fund	4,000
Fuel and Light	1,618		
Cost of Entertainment	2,190		
Sundry expenses	1,600		
Cost of Annual Dinner	760		
Sundry Debtors	1,170		
Cash at Bank	4,800		
Cash in Hand	174		

(P.T.O

11) Explain the features and defects of Single Entry and Double Entry System.

(OR)

12) Anand a retail trader, had no proper methods of accounting, but the following information is made available to you:

Particulars	1-1-2020	31-12-2020
Furniture	3,000	3,000
Motor Car	3,800	3,800
Cash	500	2,400
Stock	33,400	37,000
Bank Overdraft	40,400	38,800
Debtors	22,400	21,000
Bills Receivable	30,100	28,400
Creditors	30,800	28,000

Additional Information:

1. During the year he withdrew Rs.5,200/- for personal use.
2. Depreciate furniture by 10%
3. Write off Rs.200/- from Motor Car.
4. Debtors include Rs.400/- irrecoverable and a further reserve of 2% is to be made.
5. A bills receivable of Rs.500/- is considered doubtful.

Prepare a statement showing profit or loss for the year ended 31-12-2020 and a Revised Statement of Affairs as on that date.

13) Briefly explain the salient features of an Instalment Purchase System.

(OR)

14) A Star Company purchased a machine on hire purchase system on 1-1-2018, the cash price of which was Rs. 54,600/-. The first instalment of Rs. 12,000/- was paid immediately on taking delivery and the balance by four equal instalments of Rs.12,000/- each to be paid on the last day of each year. The vendors charged 5% per annum interest on the unpaid balance and depreciation is to be charged at 10% on diminishing balance of asset. Draw up Hire vendors a/c and Machine a/c in the books of the buyer.

15) Enumerate the main points which usually require attention at the time of admission of a partner.

(OR)

16) Following is the Balance Sheet of Amar and Sunil who share profit and losses in the ration of 3/5 and 2/5:

Liabilities	Amount	Assets	Amount
Amar's Capital	10,000	Buildings	8,000
Sunil's Capital	8,000	Plant & Machinery	10,000
Creditors	12,000	Stock	12,000
General Reserve	16,000	Debtors	11,000
Workmen Compensation Fund	4,000	Cash	9,000
	50,000		**50,000**

They are agreed to admit Vimal on following terms:
1. The value of Buildings to be increased to Rs.18,000/-
2. The value of stock to be increased to Rs.16,000/-
3. There is a liability on workmen's compensation fund which was determined at Rs. 2,000/
4. Vimal has to bring cash as his capital equal to 20% of the combined capital of Amar and Sunil after all adjustments.

Show the necessary ledger accounts in the books of the firm and new Balance Sheet after the admission of Vimal.

17) What do you mean by dissolution of a firm? Give the entries needed to close the books of the firm upon its dissolution.

(OR)

18) Following is the Balance Sheet of Vasu and Ramana as on 31st December, 2020, on which date they have decided to wind up their affairs:

Liabilities	Amount	Assets	Amount
Reserve	2,000	Furniture	400
Sundry Creditors	3,800	Stock	7,200
Vasu's Capital	11,000	Debtors	12,000
Ramana's Capital	8,000	Machinery	1,800
		Prof & Loss a/c	3,400
	24,800		**24,800**

The book debts were collected at a cost of 7 ½ %; Stock sold for Rs.6,000/-; Machinery for Rs1,400/-; furniture for Rs.500/-;

Open the necessary ledger a/c on the basis of the above Balance Sheet and show the final closing of the books.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class   : II BBA   Max Marks : 60
Subject   : Commerce   Pass Mark : 24
Title of Paper : Organisation Behaviour   Duration : 3 Hrs
Paper Code : R20BBA301A   Time   : 09:00 to 12:00
W.E.F   : 2022-23   Date   : 16/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   5X4=20M

1. Organisation Behaviour

2. Values

3. Attitude

4. Work teams

5. Discipline

6. Conflict

7. Perception

8. Organisational change

SECTION-B

II. Answer ALL the following Questions   5X8=40M

9. Briefly explain the challenges and opportunities of Organisational Behaviour?

(OR)

10. Describe the role of Manager in organisation behaviour?

11. Discuss the Herzberg's Two factor Theory of Motivation?

(OR)

12. Write in brief the concept of Personality?

13. Describe the process of Decision Making in detail?

(OR)

14. What is Learning? Explain various theories of Learning?

15. Discuss the theories of Leadership?

(OR)

16. Explain in detail about Johari Window Model?

17. Describe the various types of organisational Conflict in detail?

(OR)

18. What is Organisational Culture? Describe the features of organisational Culture?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II B.Com (Gen, TP, Comp & Log)	Max Marks	: 75
Subject	: Commerce	Pass Mark	: 30
Title of Paper	: Advanced Accounting	Duration	: 3 Hrs
Paper Code	: CBAA301	Time	: 09:00 to 12:00
W.E.F	: 2019-20	Date	: 18/11/2021

SECTION-A

I. Answer any <u>FIVE</u> of the following Questions   5X5=25M

1. Explain about Single Entry System.

2. Write about Departmental accounts

3. Explain the features of Hire Purchase System

4. Write the objectives of Branch Accounting.

5. Explain the features of Instalment Purchase System.

6. Inter Departmental Transfer

7. Explain about Debtor system

8. Write any five differences between Single Entry and Double Entry

SECTION-B

II. Answer <u>ALL</u> the following Questions   5X10=50M

9. Krishna keeps his books on Single entry system. You are required to ascertain his Profit and Loss for the year ending 31.12.2020.

	1-1-2020	31-12-2020
Furniture	4,000	5,000
Stock	2,800	4,000
Debtors	4,200	4,500
Bank Overdraft	3,200	5,000
Creditors	5,400	4,000

(OR)

10. Moha has not maintained proper books of accounts. He furnishes the following information before you. Prepare necessary statements for the year ending 31.03.2019 and find out the profit or loss.

	1-4-2018	31-03-2019
Cash at bank	5,000	6,000
Bank Overdraft	45,000	40,000
Stock	60,000	62,000
Creditors	38,600	37,200
Buildings	50,000	50,000
Debtors	30,000	32,000
Bills Receivables	40,000	38,000
Bills Payable	60,000	57,000
Furniture	5,000	5,000

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

[P.T.O]

11. A motor company purchased two trucks on 1st Jan 2014. The cost price being Rs.56,000. The purchase is on Hire purchase basis Rs.15,000 being paid. On signing the agreement and there after Rs.15,000 being paid annually for 3 years. Interest was charged at 5%. Depreciation was written off at the rate of 20% per annum on the reducing instalment system. Give necessary Journal entries in the books of Motor Company.

(OR)

12. 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 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. Give necessary Ledger accounts in the books of Lodhi Singh.

13. On 1-1-2015 Raju purchased a Machine on instalment system from Gupta & Co., the cash price of the Machine was Rs.11,175 and payment was to be made as under Rs.3,000 was to be paid on signing of the agreement and the balance in three installments of Rs.3,000 each at the end of each year. 5% interest is to be charged by the Vendor per annum. The purchaser decided to write off 10% p.a. on diminishing balance of cash price. Pass necessary Journal entries in the books of Raju.

(OR)

14. A Laundry Company Purchases machinery on the instalment system. The Cash Price of the machinery is Rs. 8,000, the deposit is Rs. 800 and four annual installments of Rs.1,800 are to be paid commencing a year after delivery. In addition, interest is to be paid at 7% on yearly balances and the purchaser has to pay the seller an insurance premium of 1/4% per annum on the outstanding balance. Show the accounts in the books of Laundry Company.

15. From the following particulars relating to Hyderabad branch for the year ending 31st December 2018. Prepare Hyderabad Branch account in the Head Office books.

	Rs.
Stock at branch on 1-1-2018	8,900
Branch Debtors on 1-1-2018	4,700
Petty Cash at Branch on 1-1-2018	20
Goods sent to Branch during the year	28,400
Goods returned by Branch	800
Cash sales during the year	15,800
Credit sales during the year	40,400
Cash received from debtors	37,900
Cash sent to branch for expenses	9,000
Stock at branch on 31-12-2018	5,400
Petty cash at branch on 31-12-2018	30

(OR)

16. A head office in Tirupati has a branch at Visakhapatnam to which goods are involved by the head office at cost price from plus 25%. All cash received by the branch is daily remitted to the head office. All expenses are paid Tirupati. From the following particulars show how the branch account will appear in the head office books.

[Continued to Next Page]

		Rs.
Stock on 1-1-2018 (Invoice price)		12,500
Debtors on 1-1-2018		12,000
Goods invoiced from Tirupati		40,000
Remittances to Tirupati		
Cash Sales	16,000	
Cash received from debtors	29,500	45,500
Cheques received from Tirupati		
Wages and Salaries	11,000	
Rent, Rates etc.,	3,000	
Sundry expenses	510	14,510
Stock on 31st Dec 2018 (Invoice Price)		15,000
Debtors on 31st December 2018		22,500

17. A Company has two departments viz piece goods and Tailoring. All goods purchased by the Tailoring department from piece goods department are sold at normal market prices, same as prices charged to outside customers. From the following particulars prepare Departmental Trading and Profit and Loss Account.

	Piece goods Department RS.	Tailoring Department RS.
Opening Stock	20,000	Nil
Purchases	2,20,000	10,000
Goods from piece goods department	--	60,000
Wages	600	6,400
Salaries(Departmental)	4,800	1,200
Closing Stock(at cost to the department)	38,600	14,000
Sales	2,43,000	1,36,000
Printing and Stationery	1,000	600
Machinery	--	12,000

Further Information:

Advertisement	10,000
Salaries(General)	18,000
Capital	1,20,000
Debtors	54,000
Creditors	7,000
Drawings	1,00,000
Cash at bank	41,000
Cash in hand	6,400

Depreciate machinery by 10%. The general unallocated expenses are to be apportioned in the ratio of piece goods 3 and tailoring 2.

(OR)

18. Raju and Sons has two departments Cloth and Ready made cloths. Ready made cloths Are manufactured by the firm itself out of cloth supplied by the cloth department as its usual selling price. From the following figures prepare Departmental Trading and Profit and Loss account and General Profit and Loss account for the year 31.12.2014.

	Cloth Dept. Rs.	Ready made cloth dept. Rs.
Stock 1.1.2014	3,60,000	60,000
Purchases	29,00,000	20,000
Sales	35,00,000	7,00,000
Transfer to Ready made Dept.	--	4,50,000
Manufacturing expenses	--	1,40,000
Closing Stock 31.12.2014	1,00,000	48,000

General expenses incurred for both the departments were Rs.1,20,000. The stocks in the ready made cloth department may be considered as consisting at 66⅓% cloth and 33⅓% other expenses. The cloth department earned profit at the rate of 18% in 2013.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III SEMESTER END EXAMINATIONS

Class   : II B.C.A   Max Marks   : 75
Subject   : Commerce   Pass Mark   : 30
Title of Paper : Accounting and Financial Management   Duration : 3 Hrs
Paper Code   : R20BCA301   Paper Time   : 9.00 Am - 12.00 Pm
W.E.F   : 2021-22   Date   : 16-12-2023

SECTION – A

I. Answer any FIVE Of the following questions.   5X5=25M

1. Meaning & Scope of Accounting

2. What are the Types of Cash Books?

3. Components of Financial Statements.

4. Classification of Accounting Ratio.

5. Cost center.

6. Meaning of Cash flow Statement.

7. Break Even Analysis.

8. Meaning of Shares & Debentures.

SECTION –B

II. Answer ALL the following Questions.   5X10=50M

9. Journalise the following transactions in the books of Mr. Gopi.

    2021 January   1 Gopi Started a Business with cash Rs. 10,00,000.

                    2 Purchased goods for Cash Rs. 2, 00,000.

                    3 Sold goods for Cash Rs.3.00,000

                    4 Goods Purchased from Venkat Rs.1, 00,000.

                    5 Goods Sold to Hari for Cash Rs.80, 000.

                    6 Furniture Purchased for Cash Rs.5, 00,000

                    7 Machinery Sold for Cash Rs.15, 00,000

                    8 Salary Paid to Mahesh Rs.50, 000

                    9 Additional Capital Brought into Business Rs.2,00,000

                    10 Commission Received from Krishna Rs.18, 000

(OR)

10. Write the causes for Disagreement of Cash Book balance with balance as per Pass Book?

11. Explain the Objectives of Preparation of Financial Statements?

(OR)

12. Define direct expenses & indirect expenses Specify the list of direct & indirect Expenses?

[P.T.O]

13. What is Ratio Analysis? Explain its Objectives and Classification?

(OR)

14. Calculate Cash Flow from Operating Activities (Indirect Method)

Opening balance of P&L a/c	-	₹50,000.
Closing Balance of P& L a/c	-	₹1,00,000.
Transfer to General Reserve	-	₹20,000.
Depreciation During the year	-	₹60,000.
Goodwill write off	-	₹20,000.
Loss on sale of a fixed Asset	-	₹30,000.
Profit on Sale of Investment	-	₹40,000
Proposed dividend	-	₹16,000

15. Explain the Classification of Costs?

(OR)

16. From the following figures relating to the manufacturing company Prepare Cost sheet.

Raw Material	50,000	Direct Wages	30,000
Factory over Head	20,000	Office Over Head	15,000
Selling Over Head	12,000	Units Produced	20,000 Units
Units Sold	18,000(Units)	Selling Price Rs.20 per Unit	

17. What is Budget? Explain steps in Preparation of Budget?

(OR)

18. Write the differences between Shares & Debentures?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)
III – SEMESTER END EXAMINATIONS

Class	: II B.Com (Gen,Tp,Log,Comp)	Max Marks	: 60
Subject	: Commerce	Pass Mark	: 24
Title of Paper	: Advanced Accounting	Duration	: 3Hrs
Paper Code	: R20COM301A	Time	:09:00 to 12:00
W.E.F	: 2022-23	Date	: 16/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Explain About Non Profit Organisation
2. Discuss Important terms in Non Trading Organisations
3. Single entry system Vs Double entry System
4. Write about Repossession in hire purchase system
5. Explain about Partnership Deed
6. Write about factors of goodwill
7. Revaluation account Vs Realisation Account
8. Write about Dissolution of a partnership firm

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Write the difference between Income and Expenditure account and Receipt and Payment account.

(OR)

10. Visakha Sports Association extracts the following Receipts and Payments Account for the year ended 31st Dec. 2020. From the particulars given, prepare Income and Expenditure Account for the year ended 31st Dec. 2020.

Dr.   Receipts and Payments Account for the year ended 31-12-2020 Cr.

	Rs.		Rs.
To Balance b/d	1,125	By Newspapers	750
To Subscriptions	2,900	By Rent	250
To Tournament Fund	750	By Salaries	1,800
To Life membership	1,000	By Office expenses	1,200
To Entrance fees	100	By Sports equipments	1,150
To Donations for buildings	1,500	By Tournament expenses	450
To Sale of Newspapers	50	By Balance c/d	1,825
	7,425		**7,425**

Subscriptions outstanding on 31st Dec. 2019 Rs. 450 and on 31st Dec. 2020Rs. 400. Subscriptions received includes Rs. 100 on account of the year 2021.

Sports equipment was valued on 31st Dec. 2019at Rs. 550 and on 31st Dec. 2020 at Rs. 1,090.

Office expenses include Rs. 150 for 2019 where as Rs. 200 is still payable on this account for 2020.

11. Write features and limitations of Single Entry system.

(OR)

12. Hari keeps his books on a single entry system. You are required to ascertain his position for the year ending 31.12.2020 from the following.

[P.T.O]

	1/1/2020	31/12/2020
	Rs.	Rs.
Stock in trade	6,700	8,500
Sundry creditors	5,400	4,000
Sundry debtors	4,200	4,500
Cash in hand	200	150
Bank over draft	3,200	5,000
Bills receivable	1,050	2,000
Fixtures and Fittings	1,500	1,500
Motor van	4,000	4,000
Plants	10,000	10,000

Total drawings during the year amounting to Rs. 3,600. During the year, he introduced further capital of Rs 3,000. Depreciate. fixtures at 10%, plant at 20% and write of motor van Rs. 500. As regards sundry debtors, it is ascertained that Rs 500 was irrecoverable and 5% were doubtful. There was a need for reserving Rs. 500 in respect of Bills Receivable. Also prepare the final Statement of Affairs.

13. Write the difference between Hire Purchase System and Installment System

(OR)

14. A Motor Car was purchased by Ram & Co., on hire purchase system. The cash price was Rs.1,80,000, payment to be made Rs.45,000 down and three installments of Rs.54,000 each at the end of each year. Rate of interest charged by the selling company is 10% p.a. Buyer depreciates the asset at 15% p.a. on written down value method The agreement was signed on 1st January 2019. Write journal in the books of Ram & co.

15. Define partnership &explain its features?

(OR)

16. Smt. Vani and Smt. Laxmi share profits and losses equally. But by agreement Laxmi pays Vani, salary of Rs. 1,000 per month out of her share in profits. The accounts at 31-12-2002 show the following results :

Capitals : Vani Rs. 76,860, Laxmi Rs. 83,580.

Net profit before charging interest on capital Rs. 47,010.

Drawings : Vani Rs. 15,000, Laxmi Rs. 21,000.

Paid by Laxmi to Vani in cash privately on account of salary Rs. 6,000. After charging 5 % interest on capital, Write up the Profit and loss appropriation account and Capital account of each partner.

17. What are the elements to be consider before admission of a partner.

(OR)

18. The following was the Balance Sheet of Vidyanand Chary and Suresh who were sharing profits in the ratio of 3 : 2 on 31st December 2020.

Balance Sheet as on 31st Deceber 2020

Liabilities	Amt.	Assets	Amt.
General Reserve	30,000	Cash at Bank	5,000
Creditors	60,000	Sundry Debtors	10,000
Capital		Stock	20,000
Vidyanand Chary	30,000	Plant and machinery	55,000
Suresh	20,000	Buildings	50,000
	1,40,000		1,40,000

They agreed to admit Srinivas into partnership on the following terms :

vi) Srinivas was to be given one third share in profits, and was to bring Rs. 25,000 as his capital and Rs. 10,000 as his share of goodwill.

vii) That the values of stock and plant were to be reduced by 10 per cent.

viii) That a provision of 5 per cent was to be created in respect of sundry debtors.

ix) That Building Account was to be appreciated by 20 % and

x) That the goodwill amount was to be withdrawn by the old partners.

Draft journal entries to give effect to the above arrangement and prepare the opening balance sheet of the new firm.

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS
III – SEMESTER END EXAMINATIONS

Class	: II BCA	Max Marks	: 60
Subject	: Commerce	Pass Mark	: 24
Title of Paper	: Accounting And Financial Management	Duration	: 3 Hrs
Paper Code	: R20BCA301A	Time	: 09:00 to 12:00
W.E.F	: 2023-24	Date	: 15/12/2023

SECTION-A

I. Answer any FIVE of the following Questions   **5X4=20M**

1. Define the terms Accounting and Book keeping?

2. General ledger and Self-ledger?

3. Explain the components of Financial Statements?

4. What is Ratio Analysis and Explain its Objectives?

5. Write a short notes on Cost Unit and Cost Centre?

6. What is Cash Flow Statement?

7. State the advantages of Budgetary Control System?

8. Break Even Analysis.

SECTION-B

II. Answer ALL the following Questions   **5X8=40M**

9. Explain various books of Accounts?

(OR)

10. Journalise the following transactions of M/s Mallika Fashion House

2022 June 05.	Business started with cash. Rs. 2, 00,000
June 12.	Goods purchased on credit from M/s Gulmohar Fashion House Rs.30, 000
June 12	Purchase office machines, paid by cheque Rs.20, 000
June 18	Rent paid Rs.5, 000
June 20	Sale of goods on credit to M/s Mohit Bros Rs.10, 000
June 22	Cash sales Rs.15, 000
June 25	Cash paid to M/s Gulmohar Fashion House Rs.30, 000
June 30	Salary paid in cash Rs.6, 000

11. Explain the objectives for preparation of Financial Statements?

(OR)

12. What are the steps taken for preparation of Balance Sheet?

13. Explain the importance of Ratio Analysis?

(OR)

14. Following are the Balance Sheets of a Vijay & Son:

Particulars	31-03-2022	31-03-2023	Particulars	31-03-2022	31-03-2023
Creditors	36,000	41,000	Cash	4,000	3,600
Loan from Partner	-	20,000	Debtor	35,000	38,400
Loan from Bank	30,000	25,000	Stock	25,000	22,000
Capital	1,48,000	1,49,000	Land	20,000	30,000
			Building	50,000	55,000
			Machinery	80,000	86000
	2,14,000	**2,35,000**		**2,14,000**	**2,35,000**

During the year Rs. 26,000 paid as Dividend. The provision made for Depreciation against Machinery as on 31-03-2022 was Rs. 27,000 and on 31-03-2023 Rs 36,000.
Prepare a Cash Flow Statement.

. Explain various Cost Concepts And Cost Centres?

(OR)

. Bombay Manufacturing Company submits the following information on 31-3-2023

Sales for the year   Rs.2, 75,000

Inventories at the beginning of the year-   Inventories at the end of the year -

a) Raw Materials Rs. 3,000   a) Raw Materials Rs.4, 000

b) Work in Progress. Rs. 4, 000   b) Work in Progress Rs.6, 000

c) Finished Goods Rs.1, 10,000   c) Finished Goods Rs.8, 000

Purchase of Materials Rs. 65,000

Direct Labour Rs. 6,000

Other Expenses for the Year –

Selling Expenses Rs. 27, 500

Administrative Expenses Rs.13, 000

Factory Overheads Rs.40, 000

Prepare Statement of Cost

7. What are the merits and demerits of Budgetary Control System?

(OR)

3. What is meant by the Working Capital? And explain its Components?

III SEMESTER END EXAMINATION

Class	: II B.Com (All Groups)	Max Marks	: 75
Subject	: Commerce	Pass Marks	: 30
Title of Paper	: Business Statistics	Duration	: 3 Hrs
Paper Code	: CBBS 301/CBBS301A	Time	: 9am to 12pr
W.E.F	: 2016-17	Date	: 18/12/202

SECTION-A

I. Answer any FIVE of the following questions　　　　　5X5=25M

1. Explain the advantages of Statistics.

2. Differences between Primary and Secondary data.

3. Explain the good features of questionnaire.

4. Calculate Arithmetic mean.

X	70	65	55	75	80	85	65	70	95

5. Compute Median.

X	8	12	20	32	30	28	12	4

6. Compute Geometric mean.

X	135	79	38	286	59	176	7

7. Calculate Mean deviation.

X	9	19	15	21	4	3	23	11	7	26	14

8. Calculate Range and co-efficient of Range.

X	17	13	11	19	9	14	21	23	16

SECTION-B

II. Answer the following questions　　　　　5X10=50M

9. Construct histogram for the following frequency distribution

Variable	35-40	40-45	45-50	50-55	55-65
Frequency	12	30	22	30	28

(OR)

10. Show the following data of expenditure of an average working-class family by a suitable diagram.

Items of Expenditure	Food	Clothing	Housing	Fuel & Lighting	Miscellaneous
Total Expenditure	9,750	1,500	1,800	750	1,200

11. Calculate Median from the following data.

X	0-4	4-8	8-12	12-16	16-20	20-24	24-28	28-32
F	4	17	36	90	123	110	66	14

(OR)

12. Calculate Mode of the following

X	0-50	50-100	100-150	150-200	200-250	250-300	300-350
F	7	16	31	48	26	14	8

13. Calculate Arithmetic mean.

X	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
F	5	12	13	20	18	15	10	7

(OR)

14. Calculate Harmonic mean.

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	20	45	85	160	70	55	35	30

15. Compute Standard deviation for the data given below.

X	10-20	20-30	30-40	40-50	50-60	60-70
F	10	12	15	20	14	24

(OR)

16. Compute Quartile deviation.

X	40-50	50-60	60-70	70-80	80-90	90-100
F	6	9	16	12	5	2

17. Calculate Karl pearson's skewness

X	0-10	10-20	20-30	30-40	40-50	50-60
F	5	12	20	16	5	2

(OR)

18. Calculate Bowley's skewness for the following data.

X	4-8	8-12	12-16	16-20	20-24	24-28	28-32	32-36
F	6	10	18	30	15	12	10	2

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