Regd No:			Room :	No:
Ba Mol	KAKARAPARTI B	HAVANARAYANA C SEMESTER END EX	COLLEGE (AUTONOMOU XAMINATIONS	JS)
Class Subject Title of Pape Paper Code W.E.F	: I MBA : Management :: Marketing Management : R20MBA201/R2	gement 2MBA20	Max Marks Pass Mark Duration Paper Time Date	:70 :28 :3 Hrs :9am to 12pm :17 07 2023
	PC.	SECTION -	A	
I. Answer an	y <u>FIVE</u> of the follo	owing Questions.		5X3=15M
1. (a) Value C	Chain			
(b) Green M	Marketing			
(c) Marketi	ing Mix			
(d) Objecti	ves of Pricing			
(e) Skimm	_			
	ing Communications M	ix		
(g) Indirec				
(h) Market	ing Audit	SECTION -B		
II. Answer A	LL the following Q			5X8=40M
2. (a) 'Marketin Concept		customers' Explain this (OR)	statement with relevance to the	e Marketing
(b) Briefly e	explain – E-Marketing a	nd Green Marketing.		
3. (a) Explain t	the bases of Market Seg	mentation. (OR)		
4. (a) Explain t	the steps in designing th	e Integrated Marketing	Communication Strategy.	
		(OR)		
(b) Discuss	the tools of Sales Promo	otion for Consumer Goo	ods.	
5. (a) Explain	the functions of Marketi	ing Channels.		
(b) Describe	e different issues in the	(OR) Channel Management.		
6. (a) Discuss	briefly different types o	f Controlling Marketing	geffort in an Organisation.	
		(OR)		
(b) Describe	e the Consumer Rights	granted by the Consume	er Protection Act.	
4,				

(P.T.O)

SECTION -C

III. Answer the following Question

1X15=15M

7. A few Companies in the Pharma Industry like Bharat Bio-Tech are actively involved and engaged in producing and distributing the Vaccine for the Corona Virus by expanding the production capacity and establishing Production Plants in different States of the Country.

Analyse the Marketing approach followed by the Bharat Bio-Tech in terms of – Research, Market Segmentation, Vaccine Development, Pricing, Distribution and Promotion

Regd No:	Room	
KAKARAPARTI BHAVANARAYANA COLLEGI PG II SEMESTER END EXAMINA	E (AUTONOMO) TIONS	US)
Class: I MBA Subject: Management Title of Paper: Human Resource Management Paper Code: R20MBA202 / R22MBA202 W.E.F: 2020-21	Max Marks Pass Mark Duration Paper Time Date	:70 :28 :3 Hrs :9am to 12pm : 19 07 202
SECTION - A		7.5
. Answer any <u>FIVE</u> of the following Questions.		5X3=15M
1. (a) Role of HR Manager		
(b) Job Analysis		
(c) Different Wage & Salary		
(d) Exit Interview		The state of the s
(e) HR Policies		
(f) Induction		1. No. 1.
(g) Employee Welfare		100
(h) Mergers		5- 6
SECTION -B		5X8=40M
II. Answer ALL the following Questions	40	370-4011
2. (a) Explain briefly the objectives and functions of Human Resource M	lanagement?	
(OR)		The same
(b) Bring out the Line and Staff responsibilities in the organizations.		
3. (a) Briefly write on various sources of Recruitment?		
(OR)		
(b) What is the importance and role of Human Resource Planning in	an organization.	
		6.12
4. (a) What is the role of training in the organization. Write various met	hods of training?	
(OR) (b) Explain the procedure for evaluating Employee Performance? Ar Performance Appraisal?	nalyze the various n	aethods of
5. (a) Define Compensation Management? What are factors affecting w	vage / salary levels?	
(b) What is meant by Career? What are the various steps in Career P	lanning?	
6. (a) What is the changing role of HR in Knowledge Era.	2	
(OR) (b) Define QWL? Briefly describe the specific issues in Quality of V	Work Life?	
		(P.T.O

SECTION -C

7. Case Study

1X15=15M

CRR Industries Ltd., Eluru is producing electric bulbs, water coolers, air coolers and refrigerators. Recently it added a new line of production i.e., electric motors both for domestic and agricultural purposes. It needed one electric engineer with B.Tech., qualification to look after the new plant producing electric motors. Presently five electric engineers with B.E., qualification as Assistant Engineers are working in the existing plant. The company advertised for the post of Chief Engineer (Electrical) for its new plant. It received twelve applications out of which five are from the Assistant Engineers working in the existing plant.

The company used techniques of preliminary interviews, tests, final interview and medical examination and finally selected Mr.C.B.Sastry, employed in the existing plant of the company. He is fourth in the seniority list of the Assistant Engineers in the present plant. The company served the appointment order to Mr.Sastry and he joined as Chief Engineer in the way plant. But the three Assistant Engineers in the existing plant moved the issue to the court of law contesting that the selection of Mr.C.B.Sastry is not valid as he is not the senior one among the Assistant Engineers in the existing plant.

Questions: (a) What would be the Management's version in the case

(b) Predict the court judgement regarding this issue

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Room No:	Regd	
KAKARAPARTI BHAVANARAYANA	COLLEGE (AUTONOM	ous)
PG II - SEMESTER END		70
Class : I MBA	Max Marks Pass Mark	: 70 : 30
Subject : MANAGEMENT Title of D. TINANAGEMENT	Duration	: 3 Hrs
Title of Paper: FINANCIAL MANAGEMENT Paper Code: R22MBA203	Time	: gam to 12pm
W.E.F : 2022-23	Date	: 21 07 202
- Y. Y.		
SECTION-A	<u> </u>	
I. Answer any <u>FIVE</u> of the following Questions		5X4=20M
1. Present value		
2. Wealth maximization		
3. Financial leverage		
4. Cost of capital		
5. EOQ		
6. Dividend policies		
7. DCF Techniques		
SECTION-B		
II. Answer any <u>FIVE</u> of the following Questions		5X8=40M
8. Discuss changing role of finance mangers. (OR)		
9. What is Financial Forecasting? How it is done?	Explain.	
10. Explain briefly types of ' leverages. (OR)		
11. Discuss how EBIT and EPS are analyzed?		
The second secon		
12. Explain the Traditional and MM theories of cap	pital structure in brief.	
(OR)		
13. Company A and B are two similar businesses was unlevered whereas Company B is levered with rate. Both the companies earn Rs. 50,000 befor capitalization rate is 10% and the corporate tax	n Rs. 2,00,000 debentur e tax income. The after-	e @ 5% inte <mark>rest</mark>
of two firms.	-rate is 40%. Calculate t	ne market value
14. Explain the types of working capital and discussion capital.	ss the sources of finance	e for working
(OR)		
15. Discuss the key aspects and elements of cash	and receivables manage	ment.
一种 一		
16. Explain the causes, effect and remedies of und	ler capitalization	
17. "The consequences of over capitalization is so		capitalization". [P.T.O]

SECTION-C

Case Study-compulsory

III. Answer the following questions

18. Case Study:

1X10=10M

A firm whose cost of capital is 10% is considering two mutually exclusive projects X and Y, the details of which are

COST	YEAR	PROJECT X	PROJECT Y
	0	70,000	70,000
CASH IN FLOW	1	10,000	50,000
	2	20,000	40,000
	3	30,000	20,000
	4	45,000	10,000
	5	60,000	10,000

Compute the Net Present Value at 10%, Profitability Index and Internal Rate of Return ρ of the two projects.

Room No:	Regd No:
TATABABARTI BHAVANARAYANA COLLEGE (AUTO	ONOMOUS)
II - SEMESTER END EXAMINATIONS	
Class : I MBA	Max Marks : 70
Subject MANAGEMENT	Pass Mark : 30 Duration : 3 Hrs
Title of Paper: Entereprenuership&Small Business Management	Time : 9am to 12p
Paper Code : R22MBA204	Date : 24 07 20
W.E.F : 2022-23	Date
SECTION-A	
I. Answer any <u>FIVE</u> of the following Questions	5X4=20M
1. Explain Types of Entrepreneurs	
2. Explain Functions of Entrepreneur	
3. What is Industry Analysis?	
4. What is project report?	N N
5. What is Sickness in SSI units?	1
6. Explain Seed Capital	1 240 -
7. Explain NSIC	4
SECTION-B	5X8=40M
II. Answer any <u>FIVE</u> of the following Questions	3A8-40M
8. Explain recent trends in women entrepreneurship	
(OR)	
9. Explain types of start-up firms.	
10. Explain components of effective business model.	4 600
(OR)	
11. Explain how to write a Business plan	
12. Explain in detail venture capital	
(OR)	
13. Explain the preparation of project report	Ten Time
14. Explain role of small enterprises in economic development.	
(OR)	
15. Explain in detail Export Oriented Units.	
16. Explain SFCs	
(OR)	
17. Explain CII in detail	
SECTION-C	
Case Study-compulsory	The Manager of the State of the
III. Answer the following questions	1X10=10M
18. Case Study:	
Departs a business plan for your C	oice Emphasize on
Prepare a business plan for manufacturing a FMCG product of your cheethical code of conduct while designing the business plan.	olee. Emphasize on

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG II - SEMESTER END EXAMINATIONS Class Max Marks: 70 : I MBA Subject Pass Mark : 30 : Management Title of Paper: Research Methodology & IPR Duration : 3 Hrs Paper Code Time : Tam : R22MBA205 W.E.F Date : 2022-23 SECTION-A 5X4=20M I. Answer any FIVE of the following Questions 1. What do you mean by literature review? State its purpose. 2. What is secondary data? Explain its sources. **3.** Briefly explain need for research ethics. **4.** What is a patent? What inventions are patentable? 5. Short note on administration of patent system. 6. What is plagiarism? Mention the common types of plagiarism. 7. What is hypothesis? State its characteristics. 5X8=40M II. Answer any FIVE of the following Questions 8. What is research? Elucidate motivation in research. 9. Define research process. Describe the various steps in research process. 10. Define sampling. What are the various sampling techniques commonly used by researchers? (OR) 11. What is data collection? Explain data collection methods and techniques for primary 12. What is report writing? Explain its significance and different steps in report writing. 13." Reliability and validity are the two most important and fundamental features in the evaluation of any measurement instrument or tool for a good research". Justify. 14. Explain the nature and features of intellectual property rights (IPR). 15. Describe the procedure for grants of patents. 16. Write a brief review on IPR developments for the past five years in India. 17. Discuss the development of IPR Laws in India. SECTION-C Case Study-compulsory III. Answer the following questions 1X10=10M 18. Case Study: What is testing of Hypothesis? State the purpose of Hypothesis testing. Enumerate Hypothesis formulation and testing procedure.

Room No	0:						gd No: _		
	I	— KAKARAPARTI	BHAVAN	ARAYANA	COLI	LEGE (AU'	CONOMO	ous)	
		PG II	- SEMES	rer end i	EXAM	INATIONS	5		
Class	: I MB	A			F	lax Marks			
Subject	: Man	agement				ass Mark			
Title of P	aper : Ope	rations Resear	rch			uration	: 3 Hrs		10.00
Paper Co		MBA206				'ime	: Pau		12 9
W.E.F	: 2022	2-23				ate	: 2	8 07	1202
				CTION-A				C37.4	-00M
I. Answer	any <u>FIVE</u> o	of the following	Question	ıs				5X4	=20M
1. State t	he limitation	ns of operations	research.						
2. What i	s duality of l	LPP?							
3. What d	lo you mean	by balanced tr	ansportati	on problen	n?				
4. State t	he main cha	tracteristics of g	game theor	y.					
5. What i	s simulation	? Why is it used	1?						
6. State a	ny four app	lications of open	rations res	earch in in	ıdustr	у.			
7. What a	are the basic	differences bet	ween PER	Γ and CPM					
				SECTION-	<u>B</u>				
II. Answe	r any FIVE	of the followin	g Questio	ns				5X8:	=40M
8. What d	lo you mean	by operations r	esearch?	Discuss the	e scop	e and sign	ificance	of	
	ons research								
				(OR	•				
9. Discus	s the applica	ation of operation	n researcl	n in manag	gerial	decision m	aking.		
								200	
		ethod? Explain	its applica	ation in ope	eratio	ns researc	h and is	sues in	i this
metho	d.								
				(OR	2)				
	_	od to solve the f	ollowing L	.P.P.			1		
Ma	aximize								
		$x_1 + 10x_2$							
S	ubject to con								
		$2x_1 + x_2 \leq$	50						
1	•	$2x_2 + 5x_2 \le$	100						
		$2x_3 + 3x_3 \le$	90						
		$x_1,x_2 \geq$							1
12. Solve	the following	g transportation	problem 1	y using Vo	ogel's	approxima	ation me	thod.	
. #		1	2	3	4				
	1	21	16	25	13	11			
10	11700				1				

2

Source

43 12 15 Requirement

Availability

[P.T.O]

(OR)

- 13. What do you mean by transportation model? Give mathematical formulation of a transportation problem.
- 14. Explain decision theory and its application.

(OR)

15. find the optimal solution for the assignment problem with the following cost matrix:

		are aborgimie	it problem wies	
			Area	3.37
Salesman	W	X	Y	Z
A	11	17	8	16
В	9	7	12	6
С	13	16	15	12
D	14	10	12	11

16. Determine the range of value of p and q that will make the payoff elements a22 a saddle point for the game whose payoff matrix (aij) is given below:

(OR)

17. Discuss process and application of simulation to different management problems.

SECTION-C Case Study-compulsory

III. Answer the following questions

1X10=10M

18. Case Study

A T.V. repairman finds that the time spent on his jobs has an exponential distribution with mean 30 minutes. If he repairs sets in the order in which they came in, and if the arrival of sets is approximately Poisson with an average rate of 10 per 8-hour day, what is repairman's expected idle time each day? How many jobs are ahead of the average set just brought in?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG II - SEMESTER END EXAMINATIONS Class Max Marks : 70 : I MBA Subject Pass Mark: 30 : Management Title of Paper: CONSUMER BEHAVIOUR (II) Duration : 3 Hrs : Tam to 12PM Paper Code Time : R22MBA207 31/07/2023 W.E.F Date : 2022-23 SECTION-A I. Answer any <u>FIVE</u> of the following Questions 5X4=20M 1. Consumer Research 2. Perception 3. Functions of family 4. Social Class

SECTION-B

II. Answer any FIVE of the following Questions

5. Extensive problem solving behavior

6. Pricing strategies 7. Test Marketing

5X8=40M

8. Define the concept of Consumer Behavior? What is its relation with other disciplines? (OR)

9. Describe in detail the profile of Indian consumer. Explain how firms can understand the needs of Indian consumers?

10. Explain how personality factors affect attitude formation.

11. What is learning? Explain various theories of Learning and their applications.

12. What is the role of Family in Consumer Decision-Making process?

13. Explain various types of Consumer Relevant Groups

14. Elucidate the Nicosia and Howard-Sheth Models of consumer behavior.

15. What do you mean by innovation? Explain the elements and process of innovation.

16. Explain Consumer behavior and product strategy.

17. Explain Consumer behavior and distribution channel strategy.

SECTION-C

Case Study-compulsory

III. Answer the following questions

18. Case Study:

1X10=10M

Yamaha Automobile Company wants to introduce a new bike - "Facino" exclusively for young ladies in Indian Market. The company wanted to conduct a survey in A.P. to understand and analyze Consumer behavior towards this bike. You are asked to prepare a questionnaire to collect the opinions of prospective consumers. Prepare a questionnaire to elicit information from consumers on price, quality, fuel efficiency and service etc. of the proposed bike.

Room No:	Regd No:
TATE OF THE PARTY REPORT OF THE PARTY AND CO	OLLEGE (AUTONOMOUS)
PG II - SEMESTER END EX	Max Marks : 70
Class : I MBA	Pass Mark : 30
Subject : MANAGEMENT	Duration : 3 Hrs
Title of Paper: Selling & Negotiation Skills	Time : Jam to 12pm
Paper Code : R22MBA208	Date : 02 08 2023
W.E.F : 2022-23	:
SECTION-A	
$\underline{\text{I.Answer any }}\underline{\text{FIVE}}$ of the following Questions	5X4=20M
1. Importance of Selling	
2. Service Selling	
3. Personal selling	
4. Negotiation skills	
5. International selling	
6. Enthusiasm	
7. Ethics	
SECTION-B	
II. Answer any <u>FIVE</u> of the following Questions	5X8=40M
8. Explain Newton's classification of sales types.	
(OR)	
9. Explain Arnold's classification of selling types.	
10. Elaborate attributes of a good sales person	M. S. Carlotte
(OR)	1-111-
11. Explain Communication skills and persuasive skills	<u>kilis</u>
12. Explain Negotiation in personal selling skills.	
(OR)	
13. Discuss need and problem identification in person	onal selling skills.
14. Discuss pyramid of success power?	
(OR)	
15. Explain goals of negotiation skills.	
16. Explain different phases of negotiation.	Land Control of the C
(OR)	
17. Explain overcoming barriers in negotiation.	
T. Augutation.	[P.T.O]
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Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG II - SEMESTER END EXAMINATIONS Class MaxMarks: 70 : I MCA Subject : Computer Science Pass Mark: 30 Title of Paper: Software Engineering & Design Patterns Duration: 3 Hrs : R22MCA201// Paper Code Time : 9am to 12pm WEF Date : 2022-23 **SECTION-A** I. Answer ALL of the following Questions 5X14=70M 1. Explain about Different life cycle models (OR) 2. Explain the scope and design aspects of Software Engineering 3. Explain the different phases of unified model (OR) 4. Explain about CMM(CAPABICITY MATURITY MODELS) 5. Define CASE and explain the scope of CASE (OR) 6. Explain about Non Execution based testing 7. Explain about Object Oriented Paradigm (OR) 8. Discuss about Cohesion and coupling 9. Explain about Software Architecture (OR) 10. Explain Design Pattern and Implementation during Design phase

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	KAKAŘAPARTI BI	HAVANARAYANA COLI	LEGE (AUTONOMOUS	
	PG II - S	SEMESTER END EXAM	INATIONS	
Class	: I MCA		MaxMarks:70	
Subject	: Computer Science	e	Pass Mark: 30	
Title of Pape	er : Database Manage	ement System	Duration: 31	1
Paper Code	: R22MCA202			am to 12pm
W.E.F	: 2022-23		Date :	9 07 2023
D 17		SECTION-A		
I. Answer <u>Al</u>	LL of the following Q	uestions		5X14=70M
1. Explain th	ne centralized and clie	ent server architecture o	of DBMS	
		(OR)	NA.	
2. Discuss	about Data models, S	Schem es and Instances		
3. Explain	ER Design for the con	mpany database		
		(OR)		
4. Explain	the relational operati	ons of Tuple calculus a	nd domain calculus	
		ما plain the 5 normal form		
No.		(OR)		
6. Explain	about Join Depender	ncies and 5 th Normal fo	rm	
7. Explain	ı in detail about trans	action processing		
		(OR)		
8. What is	s Concurrency control	and Explain concurrer	ncy control techniques	
9. Discus	ss INSERT, DELETE a	nd UPDATE schemes ir	n SQL	
		(OR)		
10. Discu	ss different constrain	s in SOL		

Room No:KAKARAPARTI BHAVANAR	AYANA COLLE	Regd No.	(OUS)
PG II – SEMESTE	R END EXAM	INATIONS	<u>.</u>
Class : I MCA	Max Mark		
Subject : Computers	Pass Mark		
Title of Paper: Computer Networks	Duration	: 3 Hrs	
Paper Code : R22MCA203	Time	: Tam to	12pm
W.E.F : 2022-23	Date	: 21/07/2	
SEC	TION-A	12.79	
I. Answer ALL the following Questions			5X14=70
1. Explain about OSI reference model			
	(OR)		
2. Explain about GO BACK N & Sliding Win	dow Protocols		
		Later 1	
3. Explain about Bluetoth Architecture		7 %	
	(OR)		
The state of the s			
4. Explain about Ethernet MAC sub layer pr	otocol		
5. Discuss the services provided by the Tran	sport layer		
	(OR)		
	, (C22)		
6. Explain about Link State Routing Algorith	ım		
	••••		
7. Explain about Congestion Control in TCP			
S Control in ICP			
	(OR)		
	(OR)		
8. Differentiate TCP and UDP			
9. Explain the services provided by DNS			
provided by DNS			
No. 10 Personal Property of the Property of th			
	(OR)		
10. Explain the Architecture of WWW			
201 And Meditecture of WWW			

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G	KAKARAPARTI BHAVANARAYANA	COLLEGE (AUTONOMOUS)
	PG II SEMESTER END EX	CAMINATION
Class	:I MCA	Max Marks : 70
Subject		Pass Mark : 30
	the Paper: Research Methodology & IPR	Duration : 3 Hrs
Paper C		Time : 9am to 12pm Date : 26 07 2023
V.E.F	: 2022-23	Date : 26 07 2023
	SECTION-A	0.75
	Answer All of the Following Questions	(5X14=70M)
	1. What is research? Explain the process of Research (OR)	ch and about types of research
	 Describe review of literature and its importance approaches to critical literature review What is Sampling and d Explain different types of (OR) What is Data Collection? Explain the techniques 	of sampling.
	5. What is Hypothesis? Explain the formulation of h (OR)	ypothesis and the types of Hypothesis.
	6. Describe about basic measurement scales .Also e of the scales	xplain about the reliability and validity
	7. Describe what is patent and procedure for granting (OR)	g patents and rights of patent
	8. What is IPR? Explain its features and different ty	pes of Intellectual Property Rights
	9. Elucidate the developments in IPR in the last five (OR)	years in India
	10. Describe the international patent protection and it	es significance.

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG II - SEMESTER END EXAMINATIONS Class Max Marks: 70 : I MCĄ Subject Pass Mark: 28 : Computers Title of Paper: Data Warehousing And Data Mining Duration : 3 Hrs : 9am to 12pm Time Paper Code: R22MCA205E2 W.E.F Date : 2022-23 SECTION-A I. Answer ALL the following Questions 5X14=70M 1. Explain in detail of OLAP (OR) 2. Discuss in detail about Data Mining and Data ware housing 3. Explain about Decision Tree algorithm with an example (OR) 4. What is meant by classifier example in detail various types of classifiers 5. Explain about FP growth algorithm (OR) 6. What is meant by an Item-set, item-set its generation and Rule 7. Discuss about Scalable clustering algorithm (OR) 8. Explain about K-Means Algorithm 9. Explain about Web Content Mining and Web structure Mining (OR) 10. Discuss in details about Ranking of Web Pages

Room No:	
No:	Regd No:
KAKARAPARTI BHAVANARAYA	ANA COLLEGE (AUTONOMOUS)
- CEMESTER EL	ID EXAMINATIONS
Class	Max Marks: 70
- dblect	Pass Mark: 28
Title of Paper: Organic Spectroscopy Paper Code Spectroscopy	Duration : 3 Hrs
Paper: Organic Spectroscopy	2 T- 19 0m
PCI Code DOOOCHOOI /RUVACIA	
W.E.F : 2022-23	Date : 24 08 2023.
SECTION	<u>1-A</u> 5X14=70M
I. Answer ALL the following Questions	
1. a) Calculate the λ_{max} of the following compo	unds using Woodward-Fieser rules (9M)
. max	
	9
(i) (ii)	(iii) —OH
(i) (ii)	(III)
b) Explain why a polar solvent usually shifts t	the $n \to \mathbb{I}^*$ transition to longer wavelength
b) Explain why a polar solvent usually sinite to	(5M)
and $n \to \Pi^*$ transition to shorter wavelength	DR MANAGEMENT
	A COMPANY
2. a) Calculate the λ_{max} of the following compo	unds using Woodward-Fieser rules (9M)
2. a) Calculate the λ_{max} of the following composition	dinds donig wood.
H₃CO.	
(i) (ii)	(ii) (iii)
	0
	(5)(1)
b) Explain the terms Chromophores and Aux	kochromes (5M)
B) Express	
	(0.0)
3. a) How do you distinguish the following pairs	s by IR spectroscopy (9M)
(i) Benzoic acid and benzophenone	s by mor
(ii) Cyclopentanone and Cyclophoponone	
(iii) 1-hexyne and 1-hexene	
(m) 1 month and a second	
b) Write a note on Finger-print region in IR.	(5M)
b) write a second in it.	
4. a) Write the factors influencing vibrational fr	requencies in the IR spectra (8M
b) Explain the frequencies for new functional	requested (6M)
b) Express in the removing	n B
Write the principle of NMD o-	(6)
5. a) Write the principle of NMR Spectroscopy	
b) Explain i) Shielding and deshielding	(8)
ii) Spin-spin splitting.	
	OR
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The state of the s	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Room No:	Regd No:	
TATE ADADA DATE BHAVANARAIA	NA COLLEGE (AUTONOMOUS)	
II CEMESTER EN	D EXAMINATIONS	
Class	Max Marks: 70	
- dblect	Pass Mark : 28	
Paper C. Physical Chemistry-II	Duration : 3 Hrs	Mala
W F F	Time : gant to	ISPM
: 2022-23	Date : 26 08	2023.
SECTION		
1. Answer ALL the following Questions 1. a) Explain Bose Einstein statistics.	5X	(14=70M (8M)
b) State and explain Nernst Heat theorem .		(6M)
(OR)		
2. a) Derive an expression for molecular translat	onal partition function of an ideal	l gas (8M)
		(6M)
b) Derive Sackur-Tetrode equation	- 7 名	N. Link
		(075)
3. a) Describe the flow methods for determination		(8M)
b) What is quantum yield. Give examples of re	action with low and high quantun	n yields.
(OR)		(6M)
1. a) Discuss the Kinetics of Hydrogen-oxygen re	action.	(8M)
b) Derive Stern-Volmer equation.		(6M)
B) Delive Bielli vonner equation		
		(8M)
5. a) Explain Great Orthogonality theorem.		
b) Write the anatomy of character table.		(6M)
(OR)		
5. a) Write about symmetry elements and symme	etry operation	(8M)
b) Explain abelian group with an example.		(6M)
5, 2-1		
7. a) Explain rigid rotator model of a diatomic m	lagule	(8M)
	offectie.	(6M)
b) Explain zero point energy and overtones		(0111)
(OR)		
8. a) Explain PQR branches in rotational vibration	nal spectroscopy.	(8M)
b) Write the differences between harmonic and	anharmonic oscillator.	(6M)
Explain Tafel plots. Derive Butler-Volmer	uion.	(14M)
	filou.	
	to titrations	(035)
10. a) Discuss the principle and advantages of p	oteniometric unaudits	(8M)
b) Describe the working of Calomel electrode	100	(6M)
 b) Write the differences between harmonic and 9. Explain Tafel plots. Derive Butler-Volmer equal 10. a) Discuss the principle and advantages of p b) Describe the working of Calomel electrode 	anharmonic oscillator. ation. oteniometric titrations	(1)

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Room No:	Regd No:		
KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)			
Class PG II - SEMESTER END EXAMINA	ATIONS		
Subject : Chemistry : Chemistry-II : Chemistry-II : R220CH203/R22ACH203/R20OCH203/R20ACH203 : Time : Parming Time : Parming Chemistry-II : Ch			
		am to 12pm	
. 2022-23	Date : 28 08	3 202	
SECTION-A			
Answer ALL the following Questions	5X14=	70M	
1. a) Explain the structure, preparation and bonding in [Re2C	218]2-	(8M)	
b) Explain Wades rules		(6M)	
(OR)			
2. a) Discuss the structure and bonding in higher boranes.		(8M)	
b) Explain carboranes, metalloboranes		(6M)	
3. a) Explain oxidative addition and reductive elimination in o	organometallic compour	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
	rganometame compour		
b) Discuss the classification, hapticity of organometallic co		(8M)	
	mpunas	(6M)	
(OR)			
4. a) Explain catalytic hydrogenation and hydroformylation re	action in organometalli	С	
compounds		(8M)	
b) Write about insertion reactions in organometallic compounds			
5. a) Explain Acid hydrolysis and Base hydrolysis.		(8M)	
b) Write the mechanism for inner sphere reactions		(6M)	
(OR)			
6. a) Discuss the reaction without metal ligand based cleavage	e in organometallic		
compounds.		(8M)	
b) Explain Marcus-Hush equation and cross reaction.		(6M)	
7. a) Explain term symbol, Diow the term symbol for d2, o	d3 d4 configuration		
b) Explain Charge transfer spectra	do, d comiguration	(8M)	
b) Bilpioni emage datible: speedig		(6M)	
(OR)			
8. a) Draw the Tanabe-Sugano diagrams for d6 configuration		(8M)	
b) Give an account on Hund's rules to predict ground terms	and Racah parameter	(6M)	
9. a) Explain types of magnetism. Write the factors affecting p	aramagnetism	(8M)	
b) Explain Spin orbit Coupling and anomalous magnetic mo	oments	(6M)	
(OR)			
O. a) Write a note on Haemoglobin		(8M)	
b) Write about Vitamin B ₁₂ and its importance			
importance		(6M)	

Room No: KAKARAPARTI BHAVANESTER END EXAMINATIONS Room No: KAKARAPARTI BHAVANESTER END EXAMINATIONS Max Marks: 70						
Room No:	MEST	EXAMINE (AUTON	OMOUS)			
KAKARAPARTI		RIONS	,			
PG II	hms	TAIST MAINT	CS : 7(1)			
Class : I M.Sc (DS)	igorilia	rass Mari	c : 28			
Subject : Computers	IP	Duration	: 3 Hrs			
Title of Paper : Design And Analy		Time	: 9 aug to 12pm			
Class : I M.Sc (DS) Subject : Computers Title of Paper : Design And Analysis A Paper Code : R23DS205E2 W.E.F : 2023-24	SECTION-	Date	: 19/10/2001			
			11/00/2021			
I. Answer <u>ALL</u> the following Question 1. Explain about Binary Search Trees	ns		40			
I. Answer ALL the following Questi			5X14=70M			
I. Answer ALL the following Quest. 1. Explain about Binary Search Trees	OR					
	centar:					
	Representation					
2. Explain about Graphs and Graphs						
3. Explain about Kruskal's Algorithm.						
	19700					
	(OR)					
4. Explain about Knapsack problem						
•						
2	oblem.					
5. Explain about Travelling person Pr	1000					
	(OR)					
6. Explain about Optimal Binary sear	ch tree?					
6. Explain about Optimal Binary sear						
a.						
hlam						
7. Explain about N-queens problem						
	(OR)					
a D 11 1 D 11 Direct Coorch						
8. Explain about Depth First Search.						
O Francis about I O Danish and Pour	nd					
9. Explain about LC Branch and Bour						
	(OR)					
10. Explain about Traveling Sales per	son lising branc	h and bound				
20. Explain about Travelling Sales per	son using branc	n and board				

KAKARAPARTI BHAVANASTER END EXAMINATIONOMOUS) ARTI BHAVANTER END COLLEGE (AUTO PG II - SEMESTER END EXAMINATIONS Room No: Title of Paper: Data Mining And Data

Paper Code: R23Decode

W.P. P. Max Marks: 70 Pass Mark : 28 : 3 Hrs Duration : 9am to 12pm Time 12 08 2024 SECTION-A Date W.E.F : 2023-24 1. Answer ALL the following Questions
1. Describe in detail about multidimensional data model. 5X14=70M (OR) 2. Describe about Data Cube and OLAP, Data Warehouse Design? 3. Explain in detail about Data Cleaning, Data Integration, Data Reduction, Data (OR) Transformation. 4. Explain the working and building of a decision tree. 5. Explain in detail about Apriori Algorithm (OR) 6. Explain in detail about FP Growth Algorithm 7. Describe in detail about Data warehouse architecture (OR) 8. Explain in detail about Star and Snow-Flake Schema, Fact Constellation. 9. Discuss in detail about Outlier analysis and detection methods. (OR) 10. Discuss in detail about Hierarchal Methods

	NARAYANA		
Room No: KAKARAPARTI	BHAVANTER END EN	PLLEGE (AUTONOMOUS	SI
Class : I M.Sc (DS) Subject : Computers Title of Paper : Data Science Wi Paper Code : R23DS203 W.E.F : 2023-24	th R Programming	Max Marks: 70 Pass Mark: 28 Duration: 31 Time: 9	
I. Answer <u>ALL</u> the following Q 1. Explain about Data Science 2. Explain Evolution of R and C	(QD)	^{tools} available for Data	5X14=70M Science?
2. Explain Evolution of R and C	Collect		
3. Explain about Data storage	and management, using		
4. Explain about different Mac	hine Learning algorithm	18?	
5. Explain about Random Fore	est and Decision Tree wi	The state of the s	
6. Explain about Normal and E	Binomial distributions?		
7. Explain about Mean, Media	n, Variance and Standa	rd Deviation?	
	(OR)	
8. Explain about - The R Profil	ler - Using summaryRp	rof()?	
9. Explain about line charts -	pie charts - box plots -	Scatter plots?	
	(O)	2)	
10. Explain about Setting rand	dom number seed and	Pie Charts with examp	ole in R?

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) Room No: ARTI BHAVESTER END COLLEGE (AUTO PG II - SEMESTER END EXAMINATIONS Class : I M.Sc (DS) Subject : Computers
Title of Paper : Data Processing And Visualization Using Tableau Max Marks: 70 Pass Mark : 28 Duration : 3 Hrs Paper Code : R23DS201 Time W.E.F : 2023-24 Date SECTION-A I. Answer ALL the following Questions I. Answer ALL the following Question

1. Explain about Creating New Workbooks, Tableau and Tableau Application Suite. 5X14=70M (OR) 2. Explain about Sample Dataset, and Types of Data Sources in Tableau. 3. Explain about Show me, Color, size and Label Options in Tableau (OR) 4. Explain about Shared Axis Charts and Dual Axis charts. 5. Create Bar Chart and Pie Chart in Tableau (OR) 6. Create a Text Table View, Histogram View and Hierarchy. 7. Create Word Clouds (Single Column and Two Columns) in Tableau. (OR) 8. Create a Water Fall Chart in Tableau. 9. Create a Simple Dashboard in Tableau (OR) 10. Create a Creating Parameters with Calculated Fields.