R	Coom No:			Regd No):
	K	AKARAPARTI BHAVANAR			
C	lass	: II MBA	ER END EXAMINATIO Max Marks		
		: Management	Pass Mark		
		: International Business	Duration	: 3 Hrs	
P	aper Code	: R22MBA401	Time	: gam to	1200
W		: 2023-24	Date	: 18/06/	2026
	1975		SECTION-A		2029
I.	Answer the	following Questions	DECITON-A		5X3=15M
1	. a) What is I	nternational business?			0210-10111
	b) What are	trade barriers?			
	c) Write sho	rt note on GATT.	•		
18	d) Explain th	he role of WTO.			
II.	e) Explain re	ole of IMF			
	f) What is to	urnkey contract?			
	g) Explain to	rends in FDI.			
	h) What are	the benefits of internationa	l marketing managen	nent?	
			SECTION-B		
II.	Answer the	following Questions			5X8=40M
2.	Explain brie	fly the concept of economic	, political and socio-c	ultural environ	ment.
			(OR)		tal.
3.	Explain the	concept of Emerging trends	s in international busi	ness.	
4.	Explain the	concepts of International tr	ade theories.		
			(OR)		
5.	Discuss the	various models of entering	into international bus	siness.	
		fly the role of MNCs in India			
			(OR)		1110
7.	Explain brief	fly ethics in international b			
		by cames in international bi	usiness.		
8.	What is Bala	nce of <mark>pa</mark> yment problems i	n India with example?		
			(OR)		
9.	What is FDI?	Explain the factors that in	fluence FDI.		
10	Explain the	concept of International pr	oduction and logistics	s.	
			(OP)		
11.	. Explain reco	ent trends in international	business.		
			SECTION-C		
12.	Case Study	following Questions (Compulsory)			1X15=15M
	Present the	case of any one internation	al husiness firm and	the ont-	
	adopted by i	t. Explain the reasons und	erlying such decisions	me entry strat s.	egies

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Class Max Marks: 70 : II MBA Subject Pass Mark: 28 : Management Title of Paper: Sales And Distribution Management Duration : 3 Hrs : 9am to 12pm Paper Code : R22MBA402 Time W.E.F : 2023-24 Date **SECTION-A** I. Answer the following Questions 5X3=15M 1. Write a short note on a) Functions of sales manager b) Sales budget c) Marketing mix d) Sales presentation e) Sales audit f) Types of Wholesalers g) Supply chain h) Sales forecasting **SECTION-B** II. Answer the following Questions 5X8=40M 2. What is sales management? Explain its nature and scope. (OR) 3. Who is a field's sales manager? Explain his tasks and responsibilities. 4. What is forecasting? Explain its methods and procedural steps. (OR) **5.** Briefly explain about the allocation of field sales resources. 6. What is sales force management? Explain about planning manpower requirements. (OR) 7. What are compensation plans? Explain designing and administering of various compensation plans. **8.** What is retailing? Explain different types of retailers. (OR) 9. What are channels of distribution? Explain its functions and relationships. 10. What are market logistics? Explain its objectives and decisions for distributions channels. (OR) 11. What do you mean by supply chain management? Explain new developments in it. P.T.O

SECTION-C

III. Answer the following Questions

1X15=15M

12. Case Study (Compulsory)

Sudha Home appliances pays its sales people well. They are on expense account. Their promotional prospectus are bright. They get an opportunity to travel to exotic places as a reward for their service. Many sales people draw five figure salaries. Sudha home appliances has thought about an incentive plan to keep the sales people motivated. IT has started to think of ways and means to compensate sales people without increasing their tax liability. It has thought of providing sales people a catalogue of house hold items which can be obtained by redeeming the points earned by them on the basis of performance. It will provide goof opportunity to sales people to point out to others with a great degree of pride what they have achieved by showing the household items and then explaining how they won it.

They also want to introduce a travel plan, because a travel to beautiful locales home and abroad is an ultimate dream of many people. Travel plan scores over reward redemption scheme because a reward that is repeated does not incentive value where as travel plan though repeated keep up its incentive value. Travel plan is also a family affair.

Questions:

- a) What is real issue in this case?
- b) Can you think of some more incentives for sudha's sales people?
- c) Should Mr Dass suggest practicing meditation and Yoga to Ms Shilpa to relieve stress?

Regd No:	Room No:
KAKARAPARTI BHAVANARAYANA COLLEGE (AU PG IV SEMESTER END EXAMINATIONS	TONOMOUS)
Class: MBA	Max.Marks: 70M
Subject: MANAGEMENT	Pass Marks: 28M
Title of the Paper: FINANCIAL DERIVATIVES	Duration: 3Hrs
Paper Code: R20MBA403FIN / R22 MBA406(F)	Time: Pam to 12pm
W.E.F: 2021-22	Date: 28 06 2024
SECTION - A	
Answer any FIVE of the following:	5 X 3=15 M
1. a) Features of Financial Derivatives	
b) Types of Traders	
c) Options	
d) Forward positions	
e) Credit default Swap	
f) Types of Margins	
g) Time Value of Money	
h) Option Price	
SECTION -B	
Answer All the questions	$5 \times 8 = 40 \text{ M}$
2. Define Financial derivatives and explain the types of Derivatives.	
(OR)	
3 Describe the Evolution of Derivative Markets in India.	
Define options. Explain the basic principles of options.	
(OR)	
5. What is option strategy? Explain the basic principles of option strat	regies.
What are the determinants of Option Pricing.	
(OR)	
Analyze the characteristics and methodology of Binomial Option Pr	ricing Model.

8 What is meant by Forwards. Explain the determinants of Forward Prices.

(OR)

- Calculate the forward price from the following data.
 - (i) a forward contract is entered into to purchase a coupon (interest) bearing bond.
 - (ii) current price of the bond Rs. 10,000
 - (iii) Coupon rate = 8% p.a
 - (iv) interest is payable semi annually
 - (v) interest payable after 3 months and 9 months respectively from the date of entering into the forward contract
 - (vi) the maturity period of the forward contract is 10 months.
 - (vii) the risk free interest rate = 6% p.a
 - (viii) Spot price of the bond is 9,500.
- Define Swaps . Explain the features and uses of Swaps.

(OR)

11. Explain the Types of swaps with examples.

SECTION - C

Case Study (Compulsory)

Answer the following question [2] Current market price of:

Calculate the option value for X and Y.

 $1 \times 15 = 15 \text{ M}$

		X	Y
Option:	=	16.12	10.62
Stock	=	Rs.80	Rs.80
Exercise price	=	Rs. 70	Rs. 80
Time to Expiration	=	3 months	3 months
Risk – free returns	=	12% p.a	12% p.a
Expected dividend	=	0	0
Stock returns	=	60%	60%

Room No:	Regd No:
RAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Class : II MBA	
	REND EXAMINATIONS
Paper Code : PROMPAGAMET / PO 9 Manh 62	
W.E.F : 2021-22	Date : 09 06 0094
	22 06 2029
	ON-A
	5X3=15)
2. Explain the Need for Retail Marketing strategy	7.
3. What are the policies of Retail HRM?	
4. Explain the Retail promotion Mix.	
5. What is store management and explain the in	nportance?
6. Explain the objectives of CRM.	
7. Explain the difference between Retail custome	ers and retail consumers.
SECTIO	מ או
9. Explain the theories Retail Development.	313 401
	DR)
10. Explain the process of Retail consumer purch	hase decision.
11. Explain the process of Strategic Retail planni	ing
_	DR)
12. Define Retail location and explain the types of	
10 17	
13. What is concept of Retail management? Explain	
14. Briefly explain about the methods of Merchan	OR) Idise procurement
Explain the techniques for Retail increasing sa	ales.
16 Explain the present of D. C. II	OR)
16. Explain the process of Retail communication	Budget.
17. Briefly explain about the process of CRM.	
(0	PR)
18. Explain the different Retention strategies.	
	[P.T.O]

SECTION- C CASE STUDY-COMPULSORY

III. Answer the following Questions

1X15=15M

- 19. It is one of the leading multiplex chains in India with 101 screens under operation in 14 cities at present. PVR has been successful in building a lifestyle entertainment brand because on its focus on customer service and quality of customer experience. The company has been able to establish itself as one of the premier entertainment destinations which has resulted in the highest occupancies, footfalls and spend per head as compared to all of the other multiplex operators. It attracted 18 million patrons with an occupancy ratio of 41% in FY08, both the highest numbers among all the multiplex players. Today it contributes 10% plus to the total domestic box office collections in the country showing a clear dominance.
 - 1. Discuss the future retail Challenges for PVR in the light of current competitive business scenario?

Deam No.	Regd No:	\ \ \ \ \
Room No:KAKARAPARTI BHAVANARAYAN	IA COLLEGE (AUTONOMOUS)	0
PG IV - SEMESTER EN	ID EXAMINATIONS	
Class : II MBA	Max Marks: 70	- 30
Subject : Management	Pass Mark : 28 Duration : 3 Hrs	133
Title of Paper: Strategic HRM		PM
Paper Code : R22MBA404(H) W.E.F : 2023-24	Date : 24 06 20	260.
W.E.F : 2023-24	27 00 - 3	- [
	CTION-A	5X3=15M
I. Answer any <u>FIVE</u> of the following Questice 1. a) Define SHRM and explain its significance	2.	
b) Classify and discuss the various multi-na	ational strategies.	
c) Summarize the methods of forecasting th	ie supply of HR.	
d) What is downsizing? When do organization		
e) Write a short note on HR Outsourcing.		
f) What do you mean by Employee Involven		100
g) List out the various Retention strategies	and explain any three.	
h) Explain the process of Benchmarking.		
	CTION-B	5X8=40M
II. Answer <u>ALL</u> the following Questions2. Explain the framework of Strategic HR Man	nagement Process.	3A8-40M
(OR)		1 .7
3. Explain the various approaches to SHRM		77
4. Discuss the role of Human Resources in M	lergers and Acquisition.	
(OR)		
5. What is Strategic HR planning? Explain the planning.	e objectives, benefits and levels o	of strategic
6. (i) Explain the steps in Strategic implement (ii) What is the role of Human Resources in (OR)	n Strategic implementation	
7. What does 'HR Outsourcing' mean? What outsourcing under globalization condition	are the implications and advanta	ges of HR
8. Elaborate HR strategies for Effective organ	nization Development.	
(OR)		
9. What are the strategies in training and de	velopment?	
10. Discuss briefly about HR evaluation pro evaluation.	cess and Explain the various app	proaches to HR
(OR) 11. Discuss and Interpret the human resour	rce evaluating strategic contribut	ion of emerging
areas in detail.		
arous in assum.		[P.T.O]

SECTION-C

III. Case Study (Compulsory)

1X15=15M

12. Hindustan Teleprompters Limited (HTL) was initially set up to manufacture electromechanical teleprompters and associated accessories in technical collaboration with an Italian company by name Olivettie. But within a few years, Indigenization was completed. The company was the only company in India, which was manufacturing teleprompters and supplying to the department of telecommunications. During the first 10 years of operations, the company made reasonable profits and build up fair amount of reserves and surplus. In the nineties, the company looked for queues of diversification as the demand of teleprompters has been stagnant. Export markets were not the answer as the electronic teleprompters had already entered into the scene. The company had decided to go in for manufacture electric typewriters. It was to be an indigenous machine based on in-house research. The management hoped to sell it at a modest price of Rs 5000. But the project failed. In 2002 the entire market was changed and the other companies came with electric typewriters and HTL was not in a position to sell its products. In addition, the requirements for teleprompters whether electro mechanical or electric has dwindled due to the introduction of fax machines on tele phone lines and customers are not interested in telex machines.

Questions

- 1. Comment the company strategic decision in going for electric type writers.
- 2. Discuss the Area of strategic decision where the company has failed.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Max Marks: 70 Class : II MBA Pass Mark: 28 Subject : Management : 3 Hrs Duration Title of Paper: International Financial Management : 9am to Time Paper Code : R22MBA404(F) Date : 2023-24 24/06 W.E.F **SECTION-A** 5X3=15M I. Answer any <u>FIVE</u> of the following Questions 1. a) Motives for Going Global b) Features of MNCs c) Floating Exchange Rate System d) Euro Bond Market e) Adjusted Present Value Approach f) International CAPM g) Dividend Policy for Multinational Corporations h) Inventory Management **SECTION-B** 5X8=40M II. Answer ALL the following Questions 2. What is IFM? Discuss its significance and role in world economy? (OR) 3. Differentiate the terms of Domestic financial management with international financial management. 4. What is gold standard? Explain the various forms and board rules of gold standard. (OR) 5. What do you mean by foreign exchange market? Discuss the role played by the main participants in this market. 6. Differentiate among the Economic, Transaction, Translation, and Real Operating Exposure in foreign exchange market? 7. What are the features of international capital budgeting? 8. How can you identify the optimum portfolios in international level? (OR) **9.** What are the long-term sources of finance for MNCs? 10. Discuss the centralized cash management system and its advantages. (OR) 11. What are the key elements and issues in international taxation? [P.T.O]

1X15=15M

III. Case Study (Compulsory)

12. Exchange rate: AUD \$ 1.317 per US \$ (spot)

AUD \$ 1.2950 per US \$ (6-months forward)

6-months interest rate: US \$ 10 percent

AUD \$ 6 percent

Work out the possibilities of arbitrage gain.

Room No:	Regd No	0.
KAKARAPARTI BHAVANA	ARAYANA COLLEGE (AUTONO	MOUS)
PG IV – SEMESTER E	END EXAMINATIONS	,
Class : II MBA Subject : Management	Max Marks : 70	
Title of Paper : Strategic Tax Management	Pass Mark : 28 Duration : 3 Hrs	
Paper Code : R22MBA405(F)	Time : Tom to	12 pm
W.E.F : 2023-24	Time : Tan to Date : 260	(12006
		6/2024
I. Answer the following Questions 1. Write short notes on	ECTION-A	5X3=15M
a) Finance Act		
b) GST Council		
c) Black Money & Juposition Tax	0	
d) Tax planning	C	
e) IGCT		
f) Dividend policy		
g) International taxation		
h) Term loans		
SE	ECTION-B	
II. Answer the following Questions2. Define GST law. Explain act, rule, and ame		5X8=40M
3. Explain current tax structure in India.		
4. Explain features and different methods of ta	ax planning. (OR)	
5. Explain tax planning process and in relation	n to small business.	
6. Explain how tax system works for business	es.	
-	(OR)	
7. Briefly explain tax implications in internation	onal joint venture.	
8. Explain Tax implications in developing capi	talization structure and short te	erm loans.
9. Explain in detail about the Tax incentives.	(OR)	
10. Explain the concept of General Anti-Avoida	ance rule and its application	
11. Explain the concept of Advance pricing agr	(OR)	
. The pricing agr	cement and its application.	
III. Answer the following Questions	CTION-C	
12. Case Study (Compulsory)		1X15=15M
Tax planning is very important and vital role	in framing strategies for setting	a un e
business. Explain the importance of tax plar optimizing tax liability.	ining for setting up new busine	g up new ss towards

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Max Marks: 70 Class : II MBA Pass Mark: 28 Subject : Management Title of Paper: Industrial Relations And Labour Legislations Duration : 3 Hrs : Yam to 12pm Time : R22MBA405(H) Paper Code Date W.E.F : 2023-24 26/06/202 **SECTION-A** 5X3=15M I. Answer the following Questions 1. a) Write the objectives of industrial relations. b) Write three main parties in industrial relations c) Write function of trade union relating to union members. d) Write causes of industrial dispute e) Define collective bargaining 1) Define Factories under Factory act 1948. g) Benefits of quality circles h) What do you mean by employee discipline? SECTION-B 5X8=40M II. Answer the following Questions 2. Define Industrial relation. Explain various approaches to Industrial relations. 3. What is trade union? Explain problems of trade unions and remedies. 4. What are the prerequisites for collective bargaining? Explain collective bargaining process. 5. What are the objectives of workers participation? Explain levels ad mode of participation. 6. Explain salient features of the factories act 1948. (OR) 7. Identify the causes for accidents in the factory. What steps should be taken to ensure industrial safety. 8. Explain salient features of Indian employment (Standing orders) act 1946. **9.** Explain in detail about the Industrial disputes act 1947. 10. Explain the major provisions in workmen's compensation act 1923. 11. Explain salient features of payment of wages of 1936. SECTION-C 1X15=15M III. Answer the following Questions 12. Case Study: "Workers' participation in management is neither feasible nor desirable under the prevailing industrial conditions in India." Critically examine this statement.

Regd No: Room No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Max Marks: 70 : II MBA Class Pass Mark: 28 : Management Subject : 3 Hrs Duration Title of Paper : Human Resources Analytics : Jam to 12pm Time Paper Code : R22MBA406(H) 28/06/2026 Date W.E.F : 2023-24 SECTION-A 5X3 = 15MI. Answer any FIVE of the following Questions 1. a) Define HR analytics b) What is an HRIS c) Define HR score card d) What is HR accounting? Explain. e) Discuss the Methods of HR Audit. f) What is competency mapping? Explain. g) Write a short notes on career planning systems. h) Discuss the pitfalls of HR Analytics SECTION-B 5X8=40M II. Answer ALL the following Questions 2. Discuss the need and importance of HR Analytics in strategic HR decision making? (OR) 3. Explain about need and methods of HR Accounting? 4. Explain how HRIS can help in HR decision making? (OR) 5. What is the development and implementation process of HRIS? 6. Explain how to use HR analytics for employee training and development? (OR) 7. Explain the role of hr analytics in Employee relations systems? 8. What are benefits of Integrated competency based HR system? (OR) 9. Explain about how to measure people management capabilities in HR climate? 10. Describe the role of Big data and predictive analytics in HR? (OR) 11. What are the issues in HR valuation and measurement?

[P.T.O]

SECTION-C

III. Case Study (Compulsory)

1X15=15M

12. "Because we're not sure how many kindergarten students to expect this fall, we're only looking for a parttime teacher to supplement our full-time teacher's load, "Patrick McCoy told each interviewee. "But there's a possibility this could become a full-time position at the last minute." Mr. McCoy, principal at Walton elementary school, gave each candidate the same details about the job, though he wished, he could be more precise about those details. The newly created position was based on a one-year grant, which may not be available in the next year. "If the grant is not available next year, we'll do our best, without guarantee, to place you somewhere in the school corporation", Patrick continued. Abby Sanders and Deb Harman, both recent college graduates, waited outside the conference room for their respective interviews. Upon exchanging pleasantries, Abby learned that Deb had been a student teacher in the kindergarten classroom at Walton last spring. Immediately, feeling disappointed, she began to wonder whether Deb would have an inside advantage. Just then, a veteran teacher, Mary Kratz, left the conference room. Mary immediately recognized Deb, then smiled and said, "Good luck!" Abby Sanders now felt as though she had no change of being hired. She had never met Mary Kratz, but it seemed to her as though everyone knew each other and that this interview would be a waste of her time. "Are you Abby Sanders?" Patrick McCoy asked, now standing in the doorway of the conference room. The two exchanged greetings and entered the conference room. "Well, tell me about yourself, "Patrick requested. Abby smiled and responded, trying to forget her previous thoughts.

Questions:

- a) What constraints are affecting Mr. McCoy's planning activities?
- b) How might hiring a part-time teacher for this position be advantageous?
- c) In this scenario, is the interview alone a valid selection technique?

Room No: Regd No: KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS Class Max Marks: 70 : II MBA Subject Pass Mark: 28 : Management : 3 Hrs Duration Title of Paper: Banking Technology Management Time Paper Code: R22MBA407 : 9am to 12pm W.E.F : 2023-24 Date **SECTION-A** 5X3=15M I. Answer the following Questions 1. Write short notes on a) Centralized banking b) MICR Electronic clearing c) Electronic fund transfer d) Data centre management e) E-cheques f) Back office management g) Crypto currency h) Block chain **SECTION-B** 5X8=40M II. Answer the following Questions 2. What are the different approaches to banking computerization? Explain it. 3. Explain technological impact in banking operations. 4. Explain overview of delivery channels. (OR) 5. Explain the concept of Internet banking. 6. Explain various banking operations in back office management? (OR) 7. Explain in detail about customer relationship management. **8.** Explain the concept of interbank payment system. (OR) 9. What is RTGS and how it works? **10.** Explain contemporary issues in banking technology. (OR) 11. What is cyber law? How cyber law protecting confidentiality and secrecy data. SECTION-C 1X15=15M III. Answer the following Questions 12. Explain the highlights of the Rangarajan committee reports.

Room No:	Regd	No:
KAKARAPARTI BHAVANARAY		US)
	END EXAMINATIONS	
Class : II MCA	Max Marks: 70	
Subject : Computers	Pass Mark : 28	
Title of Paper: Big Data Analytics	Duration : 3 Hrs	t 12.0m
Paper Code : R22MCA401	Time : Tam	6/2024
W.E.F : 2022-23	Date : 18 0	0/2024.
s	ECTION-A	
I. Answer <u>ALL</u> the following Questions		5X14=70M
1. Explain about Characteristics of Big Data	17	
	OR)	
2. Explain about types of Data used in Big I	Data	
3. Explain about Features of Hadoop and its	s difference with RDBMS.	
	OR)	
4. Explain about Hadoop Distributed File Sy	rstem.	
5. Explain about Combiner, Partitioner, Sea	rching, Sorting, Compression	d = 1
	OR)	
•	•	
6. Explain about Hadoop Eco System		
7. Explain about Mongo Db and its Feature	S	
	OR)	
8. Explain about Data types in Mongo Db		
C. Zapiem usout sum typos in mongo sis		
9. Explain about HQL		
	OR)	
10. Explain about pig and its anatomy		

Room No:	Regd No:
KAKARAPARTI BHAVANARAYANA COLLEG PG IV - SEMESTER END EXAMIN	E (AUTONOMOUS)
Class : II MCA Subject : Computers Title of Paper : Data Processing And Visualization Using Table Paper Code : R22MCA402E1 W.E.F : 2022-23	Max Marks: 70 Pass Mark: 28
I. Answer ALL the following Questions 1. Explain about Tableau Features?	5X14=70M
(OR)	
2. Explain about Tableau Workspace and types of Data So	ources supported by Tableau.
3. Explain about Using Show, Me, Choosing Mark Types, Options in Tableau. (OR)	Color, Size, Shape, and Label
4. Explain about Dual Axis in Tableau.	
5. Explain about Histogram View, Bar Chart, Line Chart.	
(OR)	
6. Explain about Pie Chart, Cross Tab and Hierarchy.	
7. Explain about Create a Heat Map in Tableau and Create	e a Water Fall Chart in Tableau
(OR)	
8. Explain about Create a Chart with Dual Axis and Synch	nronize Axis.
9. Explain about Histogram, Creating Parameters in Table	eau.
(OR)	
10. Explain about Create a Simple Dashboard	

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	KAKARAPARTI BH	AVANARAYANA	COLLEGE	OTUA)	NOMOUS)	
	PG IV - 8	SEMESTER END				
Class	: II MCA		Max Mar			
Subject	: Computers		Pass Mar			
	er : Deep Learning		Duration			10.5
•	: R22MCA402E2		Time	: -	fave to	12pm
W.E.F	: 2022-23		Date	a; :	22 06 2	2024
		SECTI	ION-A			
I. Answer	ALL the following Qu	iestions			. *	5X14=70M
1. Explain	about Deep Learning	Vs Machine Lea	rning?			
X.		(OR)				
2. Explain	about Perceptron					
3. Explain	about Architecture, II	nput and Output	Layers in	Neural	Networks,.	
		(OR)				
4. Explain	about Back Propagati	ion in Neural Net	tworks.	,		
			**	-		
5. Explain a	about Building ANN v	vith Keras.			1	
•		(OR)				
.*	with					
6. Explain a	about Regression New	ıral Networks				
	1 CNN					
7. Explain a	about CNN					
, , ,		(OR)				
R Evolain a	about Alexnet, Google	e net. LeNet-5				
b. Explain a	ibout monitor, cross-s					
4.						
9. Explain a	about LSTM and GRU	Layers	Sand All Parish			
•						
		(OR)				
10. Explain	about Stacking Recu	ırrent layers				
6						

Room No:	Pand No.	
KAKARAPARTI BHAVANA	Regd No: RAYANA COLLEGE (AUTONOMOUS)	
PG IV - SEMEST	TER END EXAMINATIONS	
Class : II MCA	Max Marks · 70	
Subject : Computers NPTEL (MOOCS	Pass Mark : 28	
Title of Paper: Programming in Java	Duration : 3 Hrs	
Paper Code : R22MCA406 W.E.F : 2022-23	Time : Paro to 12pm)
W.E.F : 2022-23	Date : 24 06 2024	0
	CDCMOV	
I. Answer any <u>FIVE</u> of the following Ques	SECTION-A	
1. Explain features of OOPs.	5X20=100	DM
Touchards of OOTS.		
•	(OR)	
	,	
2. What are the differences between C and J	Java	
· · · · · · · · · · · · · · · · · · ·		
3 Evploin about an annual ti		
3. Explain about encapsulation in java		
	(OP)	
•	(OR)	
4. Explain about Inheritance in Java		
F. Francisco about D.		
5. Explain about Exception handling in Java	i.	
	(OR)	
1.	(OR)	
6. What is Multithreading explain with exam	ple.	
3		
·		
7 Frantsia al antida de la compansión de		
7. Explain about Applets in Java		
	(OD)	
	(OR)	
8. Explain about Networking in Java.	*	
5		
•.		
9. Explain about Java Object Database Conn	ectivity (ODBC) in Java.	
	(07)	
	(OR)	
10. Explain about Interfaces in Java.		
in outu.		

Room No:			Regd No:
	PARTI BHAVANARAYA	NA COLLEGE (
1	IV - SEMESTER END		-1
Class : II M.Sc (O Subject : Chemistry Title of Paper : Advanced Paper Code : R22OCH4 W.E.F : 2022-23	organic Spectroscopy	Max Marks Pass Mark Duration Time Date	: 28
	anam.	ON A	16 100 2029
I. Answer the following 1. Write a note on Broad		ON-A	8M
2. Write the differences a	nd similarities of 13 _C an	d proton NMR	6M
	(OF	₹)	
3. Write the factors effect	ing 13 _C NMR ?		14M
4. Explain definitions and	d importance of NOE . C	OSY . DEPT.	14M
	(OF		1 1111
5 Give importance of HC	•	-1	1 43 1
5. Give importance of HC			14M
6. Explain Basic principle	es and Instrumentation	of Electron Spir	n Resonance Spectroscopy 14M
i i	(O)	۲)	1 717.
7. Explain isotropic and	•	•	8M
8. Explain the factors effe			6M
9. Explain applications o	(OR) foctant rule		8M
10. Explain theory of OR	A .	ves	6M
11. Explain octant and h	(OR!) aloketo rule		8M
12. Explain positive and	negative cotton_effects		6M
13. Molecular formula:Ce	H ₁₀ O ₂		
H NMR : δ (PPM)= 6.97(de		H), 5.83 (d, J=1	5.2 Hz , 1H),
4.17(q, J=7.2 Hz, 2H), 1			•
(ppm)= 170.0144.6 123.0	60.3 18.1 14.5 . Discus	s the componer	nt structure of the given
molecule by utilizing the	above NMR data.		
	(OF	·	3.5.71
14. In the MS, the molecular			
	nmr shows 196 ppm ,1	63 ppm ,131 p	opm , 114 ppm 55ppm and
26 ppm. H-NMR			
□/ppm multiplic 8.0 double			
8.0 double 7.0 double			
3.9 singlet			
2.6 singlet			

	CAN 2	
Room No:	Regd No:	
KAKARAPARTI BHAVANARA	YANA COLLEGE (AUTONOMOUS) R END EXAMINATIONS	
Class : II M.Sc (OCH)	Max Marks: 70	
	Pass Mark : 28	
Subject : Chemistry Title of Paper : Modern Organic Synthesis	Duration : 3 Hrs	
	Time : 9au to	12 pm
Paper Code : R22OCH402 W.E.F : 2022-23	Date : 2010	12026
W.E.F : 2022-23	20 06	12024
	Time : 9au to Date : 20 06 SECTION-A SY14	=70M.
I. Answer <u>ALL</u> the following Questions1. Write a short note on the following		
i) Alkylation of methylene groups	ii) Allylic alkylation of ∝ - thiocarbonion	s 14M
	(OR)	
2. Explain the significance of "umpolung'	" in C-C single bond formation	14 M
3. Explain the formation of carbon-carbon alkenes.	single bond by the addition of free radio	cals to 6M
4. Explain Pyrolytic Syn elimination		8M
4. Explain Fylolytic Syll climination	(OR)	
· ·	(OK)	
	11 f 1 O diala	6М
5. Discuss the stereospecific synthesis of a	alkenes from 1,2 diois	OIVI
6. Write the synthesis of decarboxylation of	of β lactones.	8M
7, Explain the oxidative decarboxylation of	f carboxylic acids	6M
A, Explain the oxidative decarboxylation of	(CE)	0
	(1884)	
2 Disease the smallestion magnifying of nitr	ones	8M
8. Discuss the cyclisation reactions of nitro		OIVI
	(OK)	
9. Explain synthetic applications of the Ho	offmann-Loeffler-Freytag reaction.	6M
	_	OM
10. Explain the photolysis of hypochlorites	5.	8M
		6M
11. Write a note on Barton reaction.		6М
12. Explain the use of chiral auxiliaries an	nd chiral enolates	∯M
		Q.,,
	(OR)	
12 Write a note on Asymmetric reduction		CM
13. Write a note on Asymmetric reduction.	•	6M
14 Write about bounts manner		014
14. Write about borate reagents.		8M
15. Discuss the applications of Heck react	ion and Baylis Hillman Reaction.	14M
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(OR)	
16. Explain C-H functionalization via C-H	bond activation	14M

Doom No:	Regd No:		
Room No:KAKARAPARTI BHAVANARAYANA CO	LLEGE (AUTONOMOUS)		
PG IV - SEMESTER END EX	AMINATIONS	ų l	
C (OCII)	Max Marks: 70		
Class : II M.Sc (OCH)	Pass Mark : 28		
Subject : Chemistry	Duration : 3 Hrs		
Title of Paper : Retrosynthetic Analysis	Time : Tane t	10 Dm	
Paper Code : R22OCH404			
W.E.F : 2022-23	Date : 22/	06/2024	
		r	
SECTION	<u>-A</u>	5X14=70M	
I. Answer the following Questions			
1. Explain the functional group inter conversion(FG	I)	6M	
2. Describe linear and convergent synthesis with ex	amples	8M	
2. Describe inical and convergent symmetry	•		
· ·			
(OR)		1.434	
3. Write the retrosynthetic analysis of salbutamol as	nd Musk ambrette	14M	
0 W 1: (1 1 diff)	actionalised 1 2-diffunction	alised and	
4. Discuss two group C-X disconnections (1, 1-difur	ictionansed, 1,2-dirametion	1414	
1,3 -difunctionalised compounds)		14M	
(OR)			
= vv :	neformation		
5. Write a note on the following selective organic tra		14M	
i) Reversal of polarity ii) amine synth	esis	14111	
6. Explain one group 1,1 C-C 1,2 C-C and 1,3 C-C	disconnections in carbony	l compounds	
C. Emplani one group 1,1 o o s,= o s,= o		14M	
(OP)			
(OR)			
7. Discuss two group C-C Disconnections in Diels-A	Alder reactions.	14M	
8. Explain the Protection and deprotection of carbo	nyl group	14M	
8. Explain the Frotection and deprotection of carbo	iiji gioup		
(OR)			
9. Discuss the Protection and deprotection of carbo	xylic acids	14M	
J. Blockby the Trotocker and depression	3		
		14M	
10. Give the synthesis of five membered rings		14M	
(OR)			
11. Write the synthesis of three membered rings.		14M	
11. Write the synthesis of three membered rings.		1 4141	

Room No:			а ио:	
KAKARAPARTI BHAVANARAY	ANA COLLEGE	(AUTONOMC	ous)	
PG IV - SEMESTER	END EXAMINAT	rions		
Class : II M.Sc (OCH&ACH)		Max Marks	: 70	
		Pass Mark	: 28	
		Duration	: 3 Hrs	
Title of Paper: Nano Chemisty		Time	: game	t- 12 pm
Paper Code : R22ACH406/R22OCH406		Date		2010
W.E.F : 2022-23		Date	: 24	06 2024
I. Answer <u>ALL</u> the following Questions				-
1. Define following terms.				
i) Nano scale ii) Nano materials iii) Na	ano Science	iv) Nanotec	hnology	14M
I) Namo scale ii) Namo materiale iii) iii		,		
•	(OR)			
2. Explain Contributors to the field of Nano	Chemistry?			14M
2. Explain Contributors to the field of Name	Citetinou j.			
3. Explain Top down and bottom-up approa	iches for the syn	thesis of nan	ospears.	
				14M
				1
	(OR)			
	 	.:.1.a		14M
4. Write various methods for the synthesis	of Gold nanopart	ncies.		14101
5. Write the principle and applications of ato	omic force micro	scopy.		14M
o. write the principle and approximation				
<i>d</i>	(OR)			
(· · · · · · · · · · · · · · · · · · ·				1.434
6. Write the principle and applications of Tr	ransmission elec	tron microsc	opy.	14M
				T .
7. write the applications of Nanomaterials i	n solar cells and	smart mater	rials.	14M
	(OR)			-
* / *	· · ·			
8. Explain the applications of Nanomateria	ls in Drug Delive	ery and Thera	ipy?	14M
O With a the series and an aille meash amical Das	marting of the on	ider sille?		14M
9. Write note on spider silk mechanical Pro	perues of the sp	ider siik?		14111
	(OR)			
	•			
10. Write a note on gecko foot climbing abi	lity of geckos?			14M
38	, 6			

Room No:	Regd No:		
KAKARAPARTI BHAVANARAYANA COI			
PG IV - SEMESTER END EX			
Class : II M.Sc (ACH)	Max Marks: 70		
Subject : Chemistry	Pass Mark : 28		
Title of Paper: Instrumental Methods of Analysis	Duration: 3 Hrs Time: 904 to 12	• •	
Paper Code : R22ACH401 W.E.F : 2022-23	Technic ID. 12	pri)	
W.E.F . 2022-23	Date : 18 66 20	24	
SECTION- I. Answer ALL the following Questions	<u>A</u>		
1. Write a note on Beer's law and its limitations?		6М	
2. Explain determination of stability constants of Pk	values of acid –base indicator?	8M	
(OR)			
3. Write a note on photometric titrations?		6M	
4. Write a note on determination of phosphate Spectrophotometry?		8M	
5. Write a note on theory, instrumentation and appli titrations?	cations of Nephelometric	14M	
(OR)		14141	
6. Write a note on theory, instrumentation and appli	cations of Phosphorimetry	14M	
7. Write a note on theory instrumentations of Flame	photometry	6M	
8. Explain applications of Flame photometry in the a	analysis of Ca and Mg	8M	
9. Explain about flame and non-flame Techniques in AAS.		6M	
10. Write a note on applications of AAS?		8M	
11. Explain the theory instrumentation and applicat	cions of Thermo gravity.	14M	
(OR)			
12. Explain the theory instrumentation and applicat	tions of DSC.	14M	
13. Explain the Principle and Instrumentation of Po	larography.	14M	
(OR)			
14. Write the advantages, disadvantages and applications of Amperometric titrations? 14M			
•••			

Room No:					d No:	
KAK	ARAPARTI BHAVA PG IV - SEM				ous)	,
Subject : C Title of Paper : Tr Paper Code : R	M.Sc (ACH) Chemistry raditional And Environr 22ACH402 022-23			Max Marks Pass Mark Duration Time Date	: 28 : 3 Hrs : Pam, to	12pm 6/2021
		SECT	NON-A		5×14	=70M
	he following Quest rinciple involved in		osition of sar	nples by HF	,	
		(0	OR)			
2. Discuss the particular fusion?	rinciple involved in	the decomp	osition of sar	nples by Aci	dic & oxidati	on 14M
3. Give the class	ification of function	al groups w	rith suitable e	examples		14M
)	(0	OR)		y *	
4. How do you do i) Secondary a	etermine the organi amines	c compound ii)Aldehyde		llowing fund	ctional group	S
5. Write a note o	n analysis of Testos	sterone and	Progesterone	;		14M
	***	(0	OR)			
5. Write a note o	n analysis of vitam	in Riboflavii	n (B ₂)			14M
7. Explain the Provider water a samp	rinciple and Proced	ure for the a	analysis of th	e following io	ons Present i	n
i)HCO ₃ -		iii) Cr³ ⁺	iv) Pb ²⁺			1 4M
* ;		(0	OR)			
8. Define the ter	m Do Explain the P	rocedure for	r the determi	nation of Do		14M
٠,						
9. Give the comp	position of pure air a	and explain	the classifica	ation of air P	ollutants.	14M
			OR)	-		(1.)
10. Write a note	on Chemical analys	sis for the N	lirogen comp	ounds		14M
3-						

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS			
Class : II M.Sc (ACH)	Max Marks : 70		
Subject : Chemistry	Pass Mark : 28		
Title of Paper : Spectroscopic Methods	Duration : 3 Hrs		
Paper Code : R22ACH404	Time : Tam to 12p		
W.E.F : 2022-23	Date : 22 06 20	24	
SECTIO	ON-A		
I. Answer <u>ALL</u> the following Questions		1=70M	
1. Write a note on basic principle and instrumenta	ation in Mass Spectroscopy	14M	
(OR)		
2. Write a note on Retro Diels Alder Fragmentation	n and structure determination of		
heteroaromatic compounds		14M	
neteroaromatie compounds			
D. I. D. L. Land Instrument	ention of CC MS	14M	
3. Write a note on basic Principle and Instrument	ation of GC-MS	1 1111	
(OR	1)	1	
4. Write a note on basic Principle and Instrument	ation of LC-MS	14M	
1			
5. Write a note on high resolution NMR Spin Syst	ems of 2, AX and ABC	14M	
(OR	2)		
6. Write a note on Instrumentation of Fourier Tra	nsform MAR	14M	
6. Write a note on mistramentation of Fourier Tra			
7. Explain the factors effecting chemical shifts in	C MR	14M	
(OR	₹)		
8. Write a note on off resonance and Broad band	decoupling in CMR	14M	
9. Molecular formula: $C_6H_{10}O_2$ H NMR: δ (PPM)	= 6.97 (dg, J=6.8 and 15.2 Hz, 1H	0. 5.83	
(d, J=15.2Hz, 1H), 4.17(q, J=7.2 Hz, 2H), 1.8	37(d. J=6.8 Hz. 3H), 1.27 (t, J =7.2	Hz , 3H)	
13 C NMR δ (ppm) =170.0 144.6 123.0 60.3 18.	.1 14.5 Discuss the component st	ructure	
of the given molecule by utilizing the above NM	R data.	14M	
(OI			
	~1		
10. In the MS, he molecular ion occurs at $m/z=1$	150 , The IR shows 1680 cm-1 and		
1250-1000 cm-1. 13 C-nmr shows 196 ppm,	131ppm, 130ppm ,114 ppm 55 pp	m and	
26ppm . H-NMR			

Regd No: ____

□/ppm	multiplicity	integration
8.0	doublet	2
7.0	doublet	2
3.9	singlet	3
2.6	singlet	3

Room No: Regd No:

KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS) PG IV - SEMESTER END EXAMINATIONS

Class : II M.Sc

: Chemistry(MOOCS)

Max Marks: 70 Pass Mark : 28

Subject

Title of Paper: Organic chemistry in Biology

Paper Code

& Drug Development

Duration : 3 Hrs

: R22ACH412/R22OCH412

Time

W.E.F

: Tom to 12pm Date

: 2022-23

Max. Marks - 100 M

Answer any Five of the Following

5*20 = 100 M

- 1. Discuss the Methods used for the determination of amino acid Sequences
- 2. Describe the structural features and roles of essential amino acids in protein synthesis
- 3. Describe the secondary and tertiary structures of proteins
- 4. Explain the the significance and features of the Ramachandran plot
- 5. Explain the processes of DNA replication, transcription and translation
- 6. Define coenzymes and explain their role in biological progress
- 7. Outline the drug development process from discovery to approval
- 8. Discuss the role of humoral mechanisms and the renin-angiotensin system in hypertension.
- 9. Discuss anti cancer drugs, their mechanisms, and their use in chemotherapy
- 10. Describe the principles and applications of quantitative structure- activity relationship(QSAR) in drug design and discovery

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KAKARAPARTI BHAVANARAYANA COLLEGE (A	Rego NITONOMO	d No:	
PG IV - SEMESTER END EXAMINATI	ONS	usj	
Class : II M.Sc	Max Marks	: 70	
Subject : Chemistry	Pass Mark	: 28	
Denier Cala Doca Giveno (Doca arrest		: 3 Hrs	
W E E		: 9 am to	
W.E.F : 2022-23	Date	26/06	2026
<u>UNIT-I</u>			
1. Discuss general Classification and nomenclature of drugs.			14M
(OR)			
2. Describe about Quantitative Structure Activity Relationship	s (QSAR)?		14M
UNIT-2	,		
3. Explain the synthesis, properties, uses and dosage of Chlora	ambucil?		14M
(OR)			
4. Describe the structure, properties and dosage of Doxorubici	in and mitor	nycin.	14M
UNIT-3			
5. write the synthesis and properties of diltiazem and quinidin	e?		14M
(OR)			
6. Describe the synthesis of verapamil and methyldopa?			14M
UNIT-4			
7. Write the synthesis and mode of action of Metformin and a-s (OR)	glucosidage	inhibitors	14M
8. Write a note synthesis and mode of action of saxagliptin and	d sitagliptin?)	14M
UNIT-5			
9. Write the synthesis of sulphonamides and ciprofloxacin.			14M
(OR)			
10. Write a note synthesis of amino salicylic acid and isoniazid	l.		14M