

# KARAPARTI BHAVANARAYANA COLLEGE(Autonomous)

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

## I SEMESTER END EXAMINATION TIME TABLE - MARCH 2024

Time	M.Sc(OCH)	M.Sc(ACH)	MBA	MCA	M.Sc(DS)
09:00 AM to 12:00 Noon 26-02-2024	<input checked="" type="checkbox"/> R20OCH101 GENERAL CHEMISTRY <input checked="" type="checkbox"/> R22OCH101 (2023-24)	<input checked="" type="checkbox"/> R20ACH101 GENERAL CHEMISTRY <input checked="" type="checkbox"/> R22ACH101 (2023-24)	<input checked="" type="checkbox"/> R20MBA101 Management Process & Organisational Behaviour <input checked="" type="checkbox"/> R22MBA101 (2023-24)	<input checked="" type="checkbox"/> R20MCA103 Programming and Problem solving using Python <input checked="" type="checkbox"/> R22MCA101 (2023-24)	PROGRAMMING WITH R AND PYTHON <input checked="" type="checkbox"/> R23DS101 (2023-24)
09:00 AM to 12:00 Noon 28-02-2024	<input checked="" type="checkbox"/> R20OCH102 Organic Chemistry <input checked="" type="checkbox"/> R22OCH102A (2023-24)	<input checked="" type="checkbox"/> R20ACH102 Organic Chemistry <input checked="" type="checkbox"/> R22ACH102A (2023-24)	<input checked="" type="checkbox"/> R20MBA102 MANAGERIAL ECONOMICS <input checked="" type="checkbox"/> R22MBA102 (2023-24)	<input checked="" type="checkbox"/> R20MCA102 Data Structures <input checked="" type="checkbox"/> R22MCA102 (2023-24)	Data Structures <input checked="" type="checkbox"/> R23DS102 (2023-24)
09:00 AM to 12:00 Noon 01-03-2024	<input checked="" type="checkbox"/> R20OCH103 Inorganic Chemistry <input checked="" type="checkbox"/> R22OCH103 (2023-24)	<input checked="" type="checkbox"/> R20ACH103 Inorganic Chemistry <input checked="" type="checkbox"/> R22ACH103 (2023-24)	Business Analytics for Managerial Decision Making <input checked="" type="checkbox"/> R20MBA103 BUSINESS ENVIRONMENT AND BUSINESS LAWS <input checked="" type="checkbox"/> R22MBA103 (2023-24)	Discrete Mathematics <input checked="" type="checkbox"/> R20MCA101 MATHEMATICAL & STATISTICAL FUNCTIONS <input checked="" type="checkbox"/> R22MCA103 (2023-24)	DATABASE MANAGEMENT SYSTEM <input checked="" type="checkbox"/> R23DS103 (2023-24)
09:00 AM to 12:00 Noon 04-03-2024	<input checked="" type="checkbox"/> R20OCH104 Physical Chemistry <input checked="" type="checkbox"/> R22OCH104 (2023-24)	<input checked="" type="checkbox"/> R20ACH104 Physical Chemistry <input checked="" type="checkbox"/> R22ACH104 (2023-24)	Financial Statement Analysis and Reporting <input checked="" type="checkbox"/> R20MBA106 Financial Reporting & Analysis <input checked="" type="checkbox"/> R22MBA104 (2023-24)	<input checked="" type="checkbox"/> R20MCA105 Operating Systems <input checked="" type="checkbox"/> R22MCA104 (2023-24)	PROBABILITY & STATISTICS <input checked="" type="checkbox"/> R23DS104 (2023-24)
09:00 AM to 12:00 Noon 06-03-2024	Personality Development through life enhancement skills <input checked="" type="checkbox"/> R22OCH105 (2023-24)	Personality Development through life enhancement skills <input checked="" type="checkbox"/> R22ACH105 (2023-24)	Business Environment <input checked="" type="checkbox"/> R20MBA107 Personality Development through life enhancement skills <input checked="" type="checkbox"/> R22MBA107 (2023-24)	Probability and Statistics <input checked="" type="checkbox"/> R20MCA104 Personality Development through life enhancement skills <input checked="" type="checkbox"/> R22MCA105 (2023-24)	Operating Systems <input checked="" type="checkbox"/> R23DS105 (2023-24)
09:00 AM to 12:00 Noon 09-03-2024	***	***	Legal Framework for Business <input checked="" type="checkbox"/> R20MBA105 Business Analytics for Decision making <input checked="" type="checkbox"/> R22MBA105 (2023-24)	Computer Organisation <input checked="" type="checkbox"/> R20MCA106	***
09:00 AM to 12:00 Noon 11-03-2024	***	***	R20MBA104 Managerial Communication R22MBA106 (2023-24)	***	***

Controller of Examinations

13/2/24

Principal

13/2/24



Room No: \_\_\_\_\_

Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I M.Sc (DS)

Max Marks : 70

Subject : Computer Science

Pass Mark : 28

Title of Paper : Programming With R and Python

Duration : 3 Hrs

Paper Code : R23DS101

Time : 9am to 12pm

W.E.F : 2023-24

Date : 26/02/2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X14=70M**

1. Explain about Control Statements in Python?

**(OR)**

2. Explain about Operators in Python

3. Explain about Functions in Python.

**(OR)**

4. Explain about Lists in Python.

5. Explain about Inheritance in Python.

**(OR)**

6. Explain about Exception Handling in Python.

7. Explain about Data Frames and Vectors in R.

**(OR)**

8. Explain about Lists and Matrices in R.

9. Explain about R CSV Files.

**(OR)**

10. Explain about Bar Charts in R.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I - SEMESTER END EXAMINATIONS**

Class : I MCA  
Subject : Computer Science  
Title of Paper : Programming And Problem Solving Using Python  
Paper Code : R22MCA101  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Time : *9am to 12pm*  
Date : *26/02/2024*

**SECTION-A**

**I. Answer ALL Questions**

**5X14=70M**

1. What is a Programming Language? Explain Abstractions in programming languages and various Computational paradigms.

**(OR)**

2. Explain Attributes, Binding and Semantic functions, Declarations, Variables and Constants in Programming Languages.

3. Define Python. Write the Features of Python and explain the steps for how to execute a Python Program with an example.

**(OR)**

4. Explain various Decision Control Statements in Python with examples.

5. Define Function. Explain Calling a Function, Scope of a Variable, Lifetime and return Statement with an example.

**(OR)**

6. Explain Lists, Tuples and Dictionaries in Python with examples.

7. Define Class and Object. Explain Class Variables and Object Variables with examples.

**(OR)**

8. Define Public and Private Data Members. Explain Class Methods and Static Methods with examples.

9. What is Inheritance? Explain Types of Inheritance in Python with examples.

**(OR)**

10. What is Exception Handling? Explain how to handle Exceptions in Python with examples.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I MBA<sup>s</sup>  
Subject : Management  
Title of Paper : Management Process And Organisational Behaviour  
Paper Code : R22MBA101  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Time : *From 12pm*  
Date : *26/02/2024*

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Levels of Management
2. Rationality in Decision making
3. Controlling
4. Importance of O.B
5. Types of Groups
6. Unity of Command
7. Informal Organisations
8. Organisational Culture

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the Managerial Roles of Mintzberg.

(OR)

10. Explain Henry Fayol's Principles of Management.

11. Elaborate the steps in the Planning process.

(OR)

12. Elaborate the steps in the MBO.

13. Describe Maslow's Need Hierarchy theory of Motivation.

(OR)

14. Describe the Leadership styles.

15. Analyse the Theories of Learning.

(OR)

16. Analyse the Transactional Analysis Model.

17. State the Conflict Resolution Strategies.

(OR)

18. State the reasons for Resistance to Change.

[P.T.O]

SECTION-C

**III. Case Study (Compulsory)**

**1X10=10M**

19. Steel Industries is a small Private Company, its main business being fabrication of mechanical equipments and machining. It employed about 30-35 regular employees, as most other jobs were given to petty contractors. The Company functioned in A and B shifts.

The engineer who supervised the activities of the regular employees as well as co-ordinated the work progress of the petty contractors, faced a problem with an employee who was working very slowly and spoiling other employees.

Unable to tackle the problem, the engineer reported the fact to the Director who ordered that the trouble maker be dismissed. But the job the employee was doing was urgent, important, and he was the only employee in the firm who do it perfectly.

A few days later, the employee met the director regarding his case. The director was firm in his stand but also had to get the job done. He asked the employee to meet him the next day. Meanwhile, he outlined a strategy in consultation with the engineer to get the job done by the employee himself without employing him. The next day when the employee met the director, the latter assured him that his case would be considered for reemployment, provided he took up the job he was doing on contract basis, to be delivered by a specific date.

What happened was a wonder. The problem employee trusted the Director's words, brought his people from the villages and completed the job most efficiently, on time. After he completed the job, the director advised him to take up further assignments on the contract basis only, as against his promise.

**Questions:**

1. Was the director right in giving the employee the job on contract basis?
2. Should he be reemployed? Discuss



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**I SEMESTER END EXAMINATION**

Class : I MBA  
Subject : Commerce  
Title of Paper : Management Process and Organisation  
Behaviour  
Paper Code : MBA 10118 / R20MBA101  
W.E.F : 2018-19

Max Marks : 70  
Pass Marks : 28  
Duration : 3 Hrs  
Time : 10am to 12pm  
Date : 26/02/2024

**SECTION-A**

**I. Answer any FIVE of the following questions**

**5X3=15M**

1. Mintz berg's roles of managers
2. Departmentation
3. Brain storming
4. Pre-requisites of control Process
5. Leadership styles
6. Social Learning theory
7. Group cohesion
8. Management by objectives

**SECTION-B**

**II. Answer the following questions**

**5X8=40M**

9. Define Management. Explain the fourteen Principles of management.  
(OR)
10. Describe the social and ethical responsibilities of managers.
11. What are different types of plans? Explain the concept of planning premises and forecasting.  
(OR)
12. Explain the function of organising. What are the formal and informal organisations.
13. What is motivation? Explain different types of motivational theories.  
(OR)
14. Discuss the concepts of delegation and decentralisation. How they are different in their aspects.
15. What is organisation behaviour? Explain the concept and different models of organisation behaviour.  
(OR)
16. What is Personality? What are the factors determining the Personality? Explain the big five model.
17. Describe the importance of groups? How does the groups formatted and developed in Organisations?  
(OR)
18. What is organisational development? Explain the various interventions of OD.

**SECTION-C**  
**(CASE STUDY)**

**15M**

19. Firms are downsizing. Consumer confidence is planning given the uncertain economic environment, why should anybody give up a secure job?

**(P.T.O)**

It may seem odd, but competent people still do it everyday. They job-hop in search of greener pastures. Take Sridhar, a software expert in a Bangalore-based firm, who scribbled the following remarks on his exit interview questionnaire.

This job is not right for me. I would like to have more input on decisions that affect me, more chance to show what I can do not get enough feedback to tell me if I am doing a good job or not, and the firm keeps people in the dark about where it is headed basically, I feel like an interchangeable part most of the time?

In reply to the question whether the firm could have done anything to retain Sridhar, he replied 'probably not'.

Why do so many promising employees leave their jobs? And why do so many others stay on but perform at minimal levels for lack of better alternatives? One of the main reasons -sridhar's reasons- can be all but invisible, because it is so common in many organisations, a systematical failure to keep good people.

Companies should worry about people like Sridhar by investing in them they may actually help reduce turn over, save on training costs, increasing productivity, improve quality and reap the benefits of innovative thinking and teamwork.

Human resource professionals and managers can contribute to corporate success by encouraging employees empowerment, security, identity, and competence. How? by recognising the essential components of keeping their best people and by understanding what enhances and diminishes those components.

Sridhar doubts that his firm will everchange, but other organisations are taking positive steps to focus on and enhance employee retention. As a result, they are reducing turn over, improving quality, increasing productivity and saving on their training costs.

**Questions:**

- (a) Do you think that sridhar's self-esteem had anything to do with his leaving the firm?
- (b) What do you think were sridhar's satisfaction with and commitment to the job and firm he is leaving?
- (c) What lessons can this firm learn in this case? What can and should it do now?
- (d) What theory of personality does best describe sridhar's behaviour?

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**KAKARAPATI BAVANARAYANA COLLEGE (AUTONOMOUS) :: PG**

**I SEMESTER END EXAMINATION**

**Class:** I MCA

**Max.Marks:** 70M

**Subject:** COMPUTER SCIENCE

**Pass Marks:** 28M

**Title of the Paper:** PROGRAMMING AND PROBLEM SOLVING USING PYTHON

**Duration:** 3Hrs

**Subject Code:** R20MCA103

**Date:** 9am to 12pm

**W.E.F:** 2020-21

**Time:** 26/02/2024

**Answer All Questions. All Questions carry equal marks**

**5X14=70M**

1. Explain about various types of if statements and conditional expressions with examples.  
(OR)
2. What is an Operator? Explain about operator Precedence and Associativity in Python with examples.
3. Write definition and creation of an array? Explain about Types of Arrays with examples.  
(OR)
4. Define Function. Explain about Calling a Function and Passing arguments by Reference values with an example.
5. Describe the basic principles of Object Oriented Programming in Python.  
(OR)
6. Explain the concept of Classes and Objects in Python with examples.
7. Explain about the concept of Files in detail.  
(OR)
8. What is an Exception? Explain about the concept of Exception Handling in Python with an example.
9. Explain about Dictionary Methods in Python and Give examples.  
(OR)
10. What is Thread? Explain about Single and Multi-tasking in Threads in Python with examples.



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**KAKARAPATI BAVANARAYANA COLLEGE (AUTONOMOUS) :: PG**

**I SEMESTER END EXAMINATION**

**Class:** I M.Sc(OCH/ACH)

**Max.Marks:** 70M

**Subject:** CHEMISTRY

**Pass Marks:** 28M

**Title of the Paper:** GENERAL CHEMISTRY-I

**Duration:** 3Hrs

**Subject Code:** R20OCH101/R20ACH101

**Date:** *Exam to 12pm*

**W.E.F:** 2020-21

**Time:** *26/02/2024*

**Answer All Questions. All Questions carry equal marks**

**5 X 14 = 70M**

1. a) Discuss the classification of reactions in Titrimetric analysis.  
b) What is meant by primary & secondary standard solution and explain with examples

**(OR)**

2. a) Write briefly the theory of Adsorption indicators  
b) Explain how the electrode potential changes in the oxidation-reduction titration of Fe (II) with Ce (IV)

3. Define an error and discuss the classification of errors with examples

**(OR)**

4. a) Explain the significance of T-test and F-test with an example  
b) Write a note on Gaussian distribution curve

- 5 Discuss the different types of distillation with their industrial significance

**(OR)**

- 6 Discuss the different types of extraction with their industrial significance

7. a) Write briefly the types of chromatography.

- b) Write about Column chromatography

**(OR)**

8. a) Write the applications of Thin Layer Chromotography

- b) Write the applications of Paper chromatography

9. a) Explain the basic principle of Gas chromatography and different types of GC.

- b) Write about detectors in GC

**(OR)**

10. a) Explain the basic principle of High Performance Liquid Chromotography.

- b) Discuss the applications of HPLC.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I - SEMESTER END EXAMINATIONS**

Class : I M.Sc (OCH/ACH)  
Subject : Chemistry  
Title of Paper : Organic Chemistry-I  
Paper Code : R22OCH102A/R22ACH102A  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Time : 9am to 12pm  
Date : 28/02/2024

**SECTION-A**

**5X14=70M**

**I. Answer ALL Questions**

1. Explain the following terms with examples.

- a) Aromaticity b) Homo Aromaticity c) anti Aromaticity

**(OR)**

2. Generation, Stability and reactivity of carbocations and carbenes

3. Write about

- i) Von - Richter rearrangement ii) Somme Let - Houser rearrangement iii) Benzyne Mechanism

**(OR)**

4. Write a brief note on neighbouring group participation and Anchimeric assistance .

5. Write a note on i) E1, E2, and E1cb mechanism ii) Pyrolytic eliminations

**(OR)**

6. i) Discuss the stereo chemical aspects and mechanism of hydro halogenation to alkenes.  
ii) Write a note on hydroboration of alkenes

7. Discuss the mechanism and synthetic applications of

- i) Dieckmann Condensation ii) Birch reduction

**(OR)**

8. Write a short note i) benzoin Condensation ii) stobbe condensation iii) Perkin reaction.

9. a) Discuss asymmetric synthesis.

- b) Describe stereoselective and stereospecific synthesis with one examples for each.

**(OR)**

10. i) Explain DL and RS nomenclature with suitable examples

- ii) Write the differences between anomers and epimers





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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG : I SEMESTER END EXAMINATIONS**

Class: MBA

Max.Marks: 70M

Subject: MANAGEMENT

Pass Marks: 28M

Title of the Paper: MANAGERIAL ECONOMICS

Duration: 3Hrs

Paper Code: R20MBA102/MBA10218 / R22MBA102.

Time: 9am to 12pm

W.E.F:2017-18

Date: 28/02/2024

**SECTION: A**

Answer any FIVE of the following questions

5 X 3 = 15 M

- 1 : Cross Demand
- 2 : Diseconomies of Scale
- 3 : Law of Variable Proportions
- 4 : Income Elasticity
- 5 : Implicit Vs. Explicit Costs
- 6 : Monopoly
- 7 : Recession
- 8 : Consumption Function

**SECTION: B**

Answer ALL questions

5 X 8 = 40 M

- 9 . Define Managerial Economics? Discuss the nature and scope of Managerial Economics.  
(OR)
- 10 . What is demand forecasting? Explain the methods of forecasting the demand for new products.
- 11 . Define production function. Explain the types of production functions.  
(OR)
- 12 Explain the process of least cost combination of factors with the help of Iso-quants and Iso-cost curves.
- 13 Discuss the concept of costs. Explain the short run and long run curves.  
(OR)
- 14 Define Monopoly? Explain how the Monopolist practices price discrimination.
- 15 What is National Income? Explain different methods of measuring National Income.  
(OR)
- 16 Explain the role of monetary and fiscal policies in economic development of India.

17 . . Explain the phases of Business Cycles with suitable examples.

(OR)

18 What are the causes and cures for Inflation.

**SECTION: C**

19 Case Study

1 X 15 = 15 M

Jindal Pvt. Ltd. was established in 1995. The company started manufacturing of Water Geyser with a brand name of 'Ganga'. During initial 10 years, the company made good profits. But, its profits gradually declined due to competition from national brands. The promoters of the company had a committed team of workers who were constantly working on Research and Development. Finally, they came out in the year 2006, with an innovative product, named Maha Ganga which runs even at very low voltage and consumes less electricity. Thus, the company is monopoly manufacturer of 'Maha Ganga'. The company is currently supplying its products in geographically separated markets of Punjab and Haryana. The company is currently charging the same price in Punjab and Haryana. The Chief Economist of the company has informed the top management that price elasticity of demand at currently-charged price is 3 in Punjab and 5 in Haryana. The top management is planning to charge two different prices in Punjab and Haryana in order to make more profits.

**Questions:**

1. Will it be possible for the company to charge two different prices in Punjab and Haryana ? If yes, under what conditions? Explain.
2. Will it be profitable for the company to charge two different prices in Punjab and Haryana ? - Explain.
3. Given the volume of total production, supply will be transferred from Punjab to Haryana or from Haryana to Punjab. Why? (Assume that transport cost for supplying the product to both the states is the same for the company.)

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I MCA  
Subject : Computer Science  
Title of Paper : Data Structures  
Paper Code : R22MCA102  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Time : 9am to 12pm  
Date : 28/02/2024.

**SECTION-A**

**I. Answer ALL Questions**

**5X14=70M**

1. What is Data Structure? Explain Linear and Multidimensional Arrays with examples.

**(OR)**

2. Define Searching. Explain Linear and Binary Search with examples.

3. Define Stack. Explain Array representation of Stack with an example.

**(OR)**

4. Define Linked List. Explain Two Way Lists with an example.

5. Define Binary Tree. Explain Representing and Traversing of Binary Trees with examples.

**(OR)**

6. Explain Heap Sort and Huffman's Algorithm with examples.

7. Define M-Way Search Tree. Explain Properties and Searching of an M-Way Search Tree.

**(OR)**

8. Explain Insertion and Deletion Operations in B-Tree and B+-Tree with examples

9. Define Graph. Explain Dijkstra's Algorithm with an example.

**(OR)**

10. Explain Floyd-Warshall's Algorithm with an example.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I M.Sc (DS)

Max Marks : 70

Subject : Computer Science

Pass Mark : 28

Title of Paper : Data Structures

Duration : 3 Hrs

Paper Code : R23DS102

Time : 9am to 12pm

W.E.F : 2020-21

Date : 28/02/2024.

**SECTION-A**

**I. Answer ALL the following Questions**

**5X14=70M**

1. Explain about Data Structure Operations?

**(OR)**

2. Explain about Complexity of Algorithms and Asymptotic Notations.

3. Explain about Bubble Sort.

**(OR)**

4. Explain about Binary Search

5. Explain about Operations of Linked List.

**(OR)**

6. Explain about Linked Representation of Stacks.

7. Explain about Operations of AVL Trees.

**(OR)**

8. Explain about Operations of Binary Search Tree.

9. Explain about Traversing in Graphs.

**(OR)**

10. Explain about Selection Sort.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)  
I SEMESTER END EXAMINATIONS**

Class	: I MBA	Max Marks	: 70
Subject	: Management	Pass Mark	: 28
Title of Paper	: Business Environment And Business Laws	Duration	: 3 Hrs
Paper Code	: R22MBA103	Paper Time	: 9am to 12pm
W.E.F	: 2022-23	Date	: 01/03/2024

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**5X4=20M**

1. Explain Nature of Business Environment?
2. Explain Fiscal policy?
3. Explain Corporate Governance?
4. Explain Quasi Contract?
5. Explain Competition Act?
6. Explain Sale of Goods Act
7. Explain GST with its features?

**Section - B**

**II. Answer ALL the following Questions**

**5X8 = 40M**

8. Explain Types of Business Environment?  
(OR)
9. Write about SWOT Analysis?
10. Explain in detail about NITI AAYOG?  
(OR)
11. Differences between Capital Market and Money Market?
12. What are the Social Objectives of Business?  
(OR)
13. Write about Issues & Challenges of Trends in Technology?
14. What are the essential elements of Valid Contract?  
(OR)
15. Explain Creation & termination of Agency?
16. Write about the features & types of GST?  
(OR)
17. Explain Consumer Protection Act 1986?

**SECTION - C**

**CASE STUDY ( COMPULSORY )**

**18. Answer the following question**

**1x10=10M**

Met Lapp Networks and Technologies Ltd. is a leader in technology innovation in the United States, creating products and solutions for connecting the world. It has, a large research and development team which invented the first smart watch, named

as W-7. The watch besides showing the time, also monitors few health parameters like heartbeat, blood pressure etc.

While in search of markets abroad, the company found that in India, the reform process was underway with the aim of accelerating the pace of economic growth. The company decided to take advantage of simplified export procedure and removal of quantitative as well as tariff restrictions in India.

It set up its office in Jamnagar with a view to capture the Indian market. In a short span of time, the company emerged as a market leader. Success of the company attracted many other players to enter the market. Competition resulted in reduction in prices, thereby benefiting the customers.

1. In the above paragraph, two major concepts related to government policy have been discussed. Identify and explain these concepts.
2. Also, explain briefly any three impacts of these concepts on Indian business and industry.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I M.Sc (DS)

Max Marks : 70

Subject : Computer Science

Pass Mark : 28

Title of Paper : Database Management Systems

Duration : 3 Hrs

Paper Code : R23DS103

Time :

W.E.F : 2020-21

Date :

9am to 12pm  
01/03/2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X14=70M**

1. Explain about Advantages and Characteristics of DBMS?

**(OR)**

2. Explain about EER Diagrams with Example

3. Explain about SELECT and PROJECT Operations.

**(OR)**

4. Explain about Triggers and Views.

5. Explain about Fourth and Fifth Normal Forms.

**(OR)**

6. Explain about Boyce Code Normal Forms.

7. Explain about Multilevel Indexing using B Trees

**(OR)**

8. Explain about RAID Technology.

9. Explain about Multiple Granularity Locking.

**(OR)**

10. Explain about 2PL for Concurrency Control.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I M.Sc. (ACH & OCH)  
Subject : Chemistry  
Title of Paper: Inorganic Chemistry  
Paper Code : R22ACH103 / R220CH103  
W.E.F : 2021-22

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9am to 12pm  
Date : 01/03/2024

**SECTION -A**

**I. Answer ALL the following Questions.**

**5X14=70M**

1. a) What are the fundamental postulates of Werner's Coordination theory. 8M  
b) Explain Nature and types of Ligands. 6M  
(OR)
2. Discuss the geometrical Isomerism exhibited by the complexes with coordination number - 4 and 6. 14M
3. a) Explain VSEPR theory and limitations. 8M  
b) Write an account on Bent's rule, energetics of hybridization. 6M  
(OR)
4. a) Explain molecular orbital diagram for  $\text{BeH}_2$ . 8M  
b) Explain non valence cohesive forces. 6M
5. a) Explain John Teller effect with suitable example. 8M  
b) Write postulates of Crystal Field theory. 6M  
(OR)
6. a) Explain the molecular orbital theory of bonding in Tetrahedral complex. 8M  
b) Explain  $\pi$  Bonding in molecular orbital theory. 6M
7. a) Explain briefly about Job's method. 8M  
b) Explain statistical effect and statistical ratio. 6M  
(OR)
8. a) Explain Hard and Soft Acid base theory. 8M  
b) Explain Irving William Series. 6M
9. a) Explain briefly about Clathrate Compounds. 8M  
b) Write a note on Di Nitrogen Complexes. 6M  
(OR)
10. a) Elaborate the spectral and magnetic properties of Lanthanides and actinides. 8M  
b) Describe the structure, Synthesis and properties of B-N cyclic compounds. 6M



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I MCA

Max Marks : 70

Subject : Computer

Pass Mark : 28

Title of Paper: Mathematical and Statistical Foundations

Duration : 3 Hrs

Paper Code : R22MCA103

Paper Time : 9am to 12pm

W.E.F : 2022-23

Date : 01/03/2024

**SECTION -A**

**I. Answer ALL the following Questions.**

**5X14=70M**

1. Define predicate and quantifiers with examples and Symbolize the following Statements.

- i) All men are good.
- ii) No men are good.
- iii) Some men are good.
- iv) Some men are not good.

**(OR)**

2. Using mathematical induction show that  $1^3 + 2^3 + 3^3 + \dots + n^3 = \left[ \frac{n(n+1)}{2} \right]^2$  Whenever  $n$  is a positive integer.

3. Find the number of integer solutions of  $x_1 + x_2 + x_3 + x_4 + x_5 = 30$  When  $x_1 \geq 2$ ,  $x_2 \geq 3$ ,  $x_3 \geq 4$ ,  $x_4 \geq 2$ ,  $x_5 \geq 0$ .

**(OR)**

4. Solve the recurrence relation  $a_{n+2} + 4a_{n+1} + 4a_n = 2^n$ .

5. Write a short note on.

- i) Graphs and Graphs Model.
- ii) Special types of Graphs.

**(OR)**

6. Explain about Euler and Hamilton paths.

7. Explain about Conditional Probability and Baye's Theorem.

**(OR)**

8. Explain the Binomial distribution and give examples.

9. Explain about Hypothesis tests on the Variance of distribution.

**(OR)**

10. Explain estimation proportions and testing hypothesis on a proportion.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG : I SEMESTER END EXAMINATIONS**

Class: MBA

Max.Marks: 70M

Subject: MANAGEMENT

Pass Marks: 28M

Title of the Paper: BUSINESS ANALYTICS FOR MANAGERIAL DECISION MAKING

Duration: 3Hrs

Paper Code: **R20MBA103**

Time: 9am to 12pm

W.E.F: 2020-21

Date: 01/03/2024

**SECTION-A**

**5 X 3 = 15M**

Answer any FIVE of the following.

1. Importance and purpose of business analytics.
2. Matrix Cramer's Rule.
3. Cluster Analytics
4. Financial Analytics.
5. Procedure of testing of hypothesis.
6. Different kinds of Analytics.
7. State Bayes' Theorem.
8. Report writing.

**SECTION-B**

**5 X 9 = 45M**

Answer ALL the questions

**Unit-I**

9. Define business Analytics. Discuss the scope and importance of business Analytics.

**(OR)**

10. Describe the types of Analytical tools. How do you identify problems and opportunities through data Analytics ?

**Unit-II**

Solve the following system of equations by using matrix inversion method.

11.

$$x + y + z = 6$$

$$2x + 3y - z = 5$$

$$6x - 2y - 3z = -7$$

**(OR)**

(P.T.O)

12. Calculate the median of the following distribution.

Length(inches)	No. of Units
0-20	1
20-40	14
40-60	35
60-80	85
80-100	90
100-120	15

**Unit-III**

13. a) Define a time series. Explain the components of time series with illustrations.

(OR)

b) Define factor analysis. Describe the types and methods of factor analysis.

**Unit-IV**

14. a) Explain customer analytics for new product development.

(OR)

b) Explain the role of supply chain and logistics analytics.

**Unit-V**

15. a) Briefly explain the different types of research.

(OR)

b) A certain stimulus administered to each of the 12 patients resulted in the following increasing of blood pressure 5,2,8,-1,3,0,-2,+1,5,0,4 & 6. Can it be concluded that the stimulus will, in general, be accompanied by an increasing blood pressure?

**SECTION-C**

**Case Study**

**1 X 10 = 10M**

16. The following data give the yields on 12 plots of land in samples, each of 4 plots. Under three varieties of fertilizers A,B, and C.

A	B	C
25	20	24
22	17	26
24	16	30
21	19	20

Is there any significant difference in the average yields of land under the three varieties of fertilizers?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG : I SEMESTER END EXAMINATIONS**

Class: MCA

Max.Marks: 70M

Subject: COMPUTER APPLICATIONS

Pass Marks: 28M

Title of the Paper: **DISCRETE MATHEMATICS**

Duration: 3Hrs.

Paper Code: **R20MCA101**

Time: 9am to 12pm

W.E.F: 2020-21

Date: 01/03/2024

Answer ALL Questions. All Questions carry equal marks

5 X 14=70 M

**UNIT-I**

1. Give a proof by equivalence of the theorem "If  $n$  is a positive integer, then  $n$  is odd if and only if  $n^2$  is odd".

(OR)

2. Use mathematical induction to show that  $1 + 2 + 2^2 + \dots + 2^n = 2^{n+1} - 1$  for all non-negative integers  $n$ .

**UNIT-II**

3. How many solutions does the equation  $x_1 + x_2 + x_3 + x_4 + x_5 = 20$ , where  $x_i \geq 2$ ,  $1 \leq i \leq 5$ .

(OR)

4. Find the solution of the recurrence relation  $a_n = a_{n-1} + 2 a_{n-2}$  with  $a_0 = 2$  and  $a_1 = 7$ .

**UNIT-III**

5. Find the Transitive closure of the relation  $R$  on the set  $\{a, b, c, d\}$ , whose relation  $R = \{(a,b), (b,c), (c,d), (d,a)\}$ .

(OR)

6. Show that the Relation  $R = \{(x, y) / 3 \text{ divides } (x-y)\}$  on a set  $A = \{1,2,3,4,5,6,7\}$  is an equivalence relation.

**UNIT-IV**

7. Explain Isomorphism of Graphs with an example.

(OR)

8. Explain Euler and Hamilton graphs.

**UNIT-V**

9. Explain Tree Traversal Techniques.

(OR)

10. Explain the Logic Gates with examples.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I – SEMESTER END EXAMINATIONS**

Class : M.Sc(Data Science)  
Subject : STATISTICS  
Title of Paper : PROBABILITY AND STATISTICS  
Paper Code : R23DS404  
W.E.F : 2023-24

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hours  
Date : 04.03.2024  
Time : 09:00 to 12:00

**SECTION -A**

**Answer ALL of the following**

**5 X 14 = 70 M**

1. Explain probability models and State and prove bayes theorem.

**OR**

2. If all graduate students in the university 70% are women 30% are men. Suppose that 20% and 25% of the female and men population respectively smoke cigarettes. What is the probability that randomly selected graduate student is

i) A women who smokes    ii) A women who smokes    iii) A smoker

3. There are four fused bulbs in a lot of 10 good bulbs. If three bulbs are drawn at random with replacement, find the probability of distribution of the number of fused bulbs drawn?

**OR**

4. Define Binaomial distribution. Write its assumptions and properties.

5. What are two types of errors? Explain the procedure for testing of hypothesis.

**OR**

6. What are the steps involved in to test the significance difference between two means.

7. What is ANOVA ? Explain ANOVA two way classification.

**OR**

8. Find the Significance difference between treatments by using ANOVA one way analysis.

Treatments	A	8	10	12	8	7
	B	12	11	9	14	4
	C	18	12	16	6	8
	D	13	9	12	16	15

9. Find the regression lines to the following data-set

X	28	41	40	38	35	33	46	32	36	33
Y	30	34	31	34	30	26	28	31	26	31

**OR**

10. Fit multiple regression of X on Y and Z by using leastsquares technique.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I M.Sc. (ACH, OCH)  
Subject : Chemistry-I  
Title of Paper : Physical chemistry  
Paper Code : R22ACH104/R22OCH104  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9am - 12noon  
Date : 04.03.24

**SECTION -A**

**I. Answer ALL the following Questions.**

**5x14 = 70M**

1. Derive Schrodinger wave equation.

**(OR)**

2. Derive wave function and energy for particle in one dimensional box.

3. Derive Classiuss -Clapeyron equation.

**(OR)**

4. Derive Van't Hoff's equation.

5. Give a brief account on Transition state theory.

**(OR)**

6. Discuss Primary salt effect.

7. What is critical micellar concentration? Explain the factors about CMC And also write about classification of surfactants.

**(OR)**

8. Derive BET equation.

9. What is a concentration cell? Derive equation emf of concentration cell without transference.

**(OR)**

10. What is liquid junction potential? Derive an equation of liquid junction potential.

Sl. No.	Name	Register No.	Section	Date
1				
2				
3				
4				
5				

**SECTION - A**

1. Answer ALL the following Questions

1. Define the term 'Work'.

(10)

2. A force of 10 N is applied to a body to move it through a distance of 5 m. Calculate the work done.

(10)

3. State the law of conservation of energy.

(10)

4. Define the term 'Power'.

5. A lamp is rated 100 W, 250 V. Calculate the current drawn by the lamp when it is connected to a 250 V AC supply.

(10)

6. State the Joule's law of heating.

7. A wire of length 1 m and cross-sectional area 1 mm<sup>2</sup> is stretched by a force of 100 N. Calculate the work done.

(10)

8. A body of mass 2 kg is moving with a velocity of 10 m/s. Calculate its kinetic energy.

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : Management  
Title of Paper : Financial Reporting & Analysis  
Paper Code : R22MBA104  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9am - 12 noon  
Date : 04.03.24

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**4X5=20M**

1. Management Reporting.
2. Business responsibility report.
3. Basic accounting concepts.
4. Trend analysis.
5. C-V-P Analysis.
6. Concept of funds flow statement.
7. Turnover ratio.

**SECTION -B**

**II. Answer ALL the following Questions.**

**5X8=40M**

8. Explain objectives and limitations of financial reporting.  
(OR)
9. Discuss the elements of financial statement.
10. Explain disclosures under accounting standards and voluntary disclosures.  
(OR)
11. Discuss Auditors Report and Directors Report.
12. What are the advantages and disadvantages of financial statement?  
(OR)
13. Prepare trading account, profit and loss account balance sheet as on 31<sup>st</sup> March 2019, on the basis of the following trail balance of Kiran, keeping in view the adjustment.

Debit	Amount	Credit	Amount
Opening stock	80,000	Sundry creditors	30,000
Sundry debtors	60,000	Bills payable	15,000
Bills receivable	30,000	Miscellaneous receipts	900
Carriage	3,000	Capital account	2,50,000
Wages	26,000	Commission	5,000
Salaries	20,000	Bad debts provision	1,100
Telephone	2,000	Sales	2,84,400
Repairs	700		
Purchases	1,70,000		
Cash at bank	34,000		
Machinery	1,31,600		
Furniture	18,000		
Miscellaneous expenses	700		
Depreciation	10,400		
	5,86,400		5,86,400

**(P.T.O)**

**Adjustment:** a) Closing stock as on 31.3.2019 Rs. 80,000

b) Calculate interest on capital at 2 ½% on capital.

c) Create bad debts Rs.1000 and reserve for doubtful debts 5% on sundry debtors.

d) Out standing expenses wages Rs.3,400 and rent Rs.15,000.

e) Miscellaneous expenses includes Rs.200 prepaid insurance.

f) Goods worth Rs. 250 withdrawn for personal use of the proprietor not recorded in the books.

14. What is the difference between funds flow and cash flow statement.

(OR)

15. The summary of cash transactions extracted from the books of Happy Ltd. are

Balance as on 1 <sup>st</sup> April, 2015	140
Receipts from customers	11,132
Issues of shares	1,200
Sales of fixed assets	512
	12,984
Payments to suppliers	8,188
Payments for fixed assets	920
Payments for overheads	460
Wages and salaries	276
Taxation	972
Dividend	320
Repayment of bank loans	1,000
	12,136
Balance as on 31 <sup>st</sup> March, 2016	848

You are required to prepare a cash flow statement of the company for the period ended 31<sup>st</sup> March, 2016 in accordance with the Indian Accounting Standards.

16. Define BEP Analysis and Marginal Costing Technique.

(OR)

17. From the following balance sheet of KLR Ltd as on 30<sup>th</sup> June 2008.

Balance sheet

Liabilities	Rs	Assets	Rs
Equity share capital	3,00,000	Fixed assets	6,00,000
9% Pref. Share Capital	1,00,000	Investments	50,000
10% Debentures	2,00,000	Current assets	2,50,000
Reserves and surpluses	50,000		
Long-term Loans	25,000		
Current liabilities	2,25,000		
	9,00,000		9,00,000

(Continued to Next. Page)



**Your required to calculate:**

- a) Debt-Equity Ratio. (Long-term Debt to Equity)
- b) Proprietary Ratio
- c) Solvency Ratio

**SECTION -B**

**18. Answer the following Questions.**

**1X10=10M**

From the following balance sheet of XYZ Co Ltd. Prepare funds flow statement.

<b>Liabilities</b>	<b>2015</b>	<b>2016</b>	<b>Assets</b>	<b>2015</b>	<b>2016</b>
Equity share capital	600	800	Good will	230	180
Preference capital	300	200	Land and buildings	400	340
General reserve	80	140	Plant & Machinery	160	400
Profit and Loss A/c	60	96	Debtors	320	400
Proposed dividend	84	100	Stock	154	218
Creditors	110	166	Bills receivable	40	60
Bills payable	40	32	Cash	30	20
Tax provision	80	100	Bank	20	16
	1,354	1,634		1,354	1,634

**Additional information:**

- (i) Proposed dividend made during 2015 has been paid during 2016.
- (ii) Depreciation – (a)Rs. 20,000 on Plant and Machinery, and (b) Rs.40,000 on Land and Buildings.
- (iii) Interim dividend has been paid during Rs. 40,000 in 2016.
- (iv) Income –tax Rs.70,000 has been paid during 2016.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I MCA

Max Marks : 70

Subject : Computer Science

Pass Mark : 28

Title of Paper : Operating Systems

Duration : 3 Hrs

Paper Code : R22MCA104

Time : 9 am - 12 noon

W.E.F : 2020-21

Date : 04.03.24

**SECTION-A**

**5X14=70M**

**I. Answer ALL the following Questions**

**1. Explain about Operating System Services and Concepts?**

**(OR)**

**2. Explain about Process Control Block and types of System Calls.**

**3. Explain about Critical Section Problem.**

**(OR)**

**4. Explain about Dead Lock Avoidance and Recovery.**

**5. Explain about Paging and Segmentation.**

**(OR)**

**6. Explain about Page Replacement Algorithms.**

**7. Explain about Allocation Methods.**

**(OR)**

**8. Explain about Disk Structure and Scheduling.**

**9. Explain about Features of Operating Systems.**

**(OR)**

**10. Explain about Types of network based Operating Systems.**



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG : I SEMESTER END EXAMINATIONS**

Class: MCA

Max.Marks: 70M

Subject: COMPUTER APPLICATIONS

Pass Marks: 28M

Title of the Paper: OPERATING SYSTEM

Duration: 3Hrs.

Paper Code: **R20MCA105**

Time: 9 am - 12 noon

W.E.F: 2020-21

Date: 04.03.2024

**Answer ALL Questions. All Questions carry equal marks**

**5 X 14=70 M**

1. a) Discuss Operating System services. What are various types of Operating Systems.

**OR**

- b) What is System call and Explain?

2. a) What is scheduling ? Discuss various scheduling types.

**OR**

- b) What is context switching and design dispatch latency?

3. a) Differentiate deadlock prevention and deadlock avoidance.

**OR**

- b) What is critical section? Discuss semaphore in detail.

4. a) Differentiate demand paging and page Segmentation.

**OR**

- b) Explain access methods in detail.

5. a) Discuss various file allocation methods.

**OR**

- b) Explain RAID structure in detail.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : M.Sc(Data Science)

Max Marks : 70

Subject : COMPUTERS

Pass Mark : 28

Title of Paper : OPERATING SYSTEMS

Duration : 3 Hours

Paper Code : R23DS105

Date : 06.03.2024

W.E.F : 2023-24

Time : 09:00 to 12:00

**SECTION -A**

**Answer ALL of the following**

**5 X 14 = 70 M**

1) Explain about Operating system services.

(Or)

2) Explain about any two scheduling algorithms.

3) Explain about critical section problem.

(Or)

4) Explain about deadlock handling, prevention and avoidance.

5) Explain about paging.

(Or)

6) Explain about any two page replacement algorithms.

7) Explain about file system structures.

(Or)

8) Explain about disk structure & scheduling.

9) Explain about types of Network based Operating systems.

(Or)

10) Explain the features of android operating systems.





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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I M.Sc (ACH/OCH), MCA

Max Marks : 70

Subject : Computer Science

Pass Mark : 28

Title of Paper : Personality Development Through  
Life Enlightenment Skills

Duration : 3 Hrs

Paper Code : R22OCH105/R22ACH105/R22MCA105

Time : 9am - 12noon

W.E.F : 2022-23

Date : 06.03.2024

**SECTION-A**

**5X14=70M**

**I. Answer any FIVE of the following Questions**

1. Brief note on personality?

(OR)

2. What is the Importance of self- motivation?

3. Short note on Good manners and etiquette?

(OR)

4. Discuss about virtue?

5. Define Stress Management?

(OR)

6. Explain the Ways to Develop Positive Attitude?

7. Emotional Ability/Intelligence?

(OR)

8. Explain SWOT analysis?

9. Briefly explain about the concept of Success and Failure?

(OR)

10. What are the Types of Attitudes and advantages and disadvantages of positive and negative attitude?

11. Explain about Theories of Motivation? Explain the importance of self-motivation?

(OR)

12. Explain about Dimensions of Emotional Intelligence and Building Emotional Intelligence?

13. Briefly explain about Body language and Problem-solving?

(OR)

14. Explain the concept of Verses x?

**[P.T.O]**

15. Discuss about pride and heroism?

(OR)

16. Explain the Principles of Astanga Yoga by Patanjali ?

17. Briefly explain about Meditation techniques?

(OR)

18. Mr. Afroz an organizational consultant. He found personalities name tags are important

In the work place and we must interact with one another But, sometimes interactions Can lead to conflict because of the clashes between traits dimensions for example, Outspoken and reserved, impulsive and methodical, along with skeptical and accepting. Besides, impulsive types usually foster more conflict than the others. This also being supported by some research because personality characteristics seem to affect whether the interpersonal conflict helps or hurts team performance It can be determine by the openness to experience and emotional stability of the employees. Conflict can affect team performance if there is low on some personality qualities. Plus, relationship between employees and supervisors can be weak if they have different personality on the big five modal except extroversion.

**Questions**

- a) Analyze the summary of the case.
- b) How would you like to examine the personality Traits which really influence the team's performance?
- c) Justify with your answer and list out the personality traits which help in strengthening the relationships between the employees and the supervisor?

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**PG I – SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : Management  
Title of Paper : Personality Development Through  
Life Enlightenment Skills  
Paper Code : R22MBA107  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28

Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 06.03.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

Write short notes on:

1. Find Dimensions of Personality in brief
2. Importance of self- motivation
3. Explain the term Attitude
4. What is meant by the term Emotional Intelligence?
5. Why Work Ethics are important in any organizations?
6. Time Management
7. Types of Pranayama
8. List out the Meditation techniques

**SECTION-B**

**II. Answer any FIVE of the following Questions**

**5X8=40M**

9. Summarize the Theories of Personality development. (Freud & Erickson).

**(OR)**

10. Explain the SWOT analysis of any MNC

11. Can you write a brief outline of Attitude and Types of Attitudes?

**(OR)**

12. Compare the Theories of Motivation explained by Maslow and Herzberg.

13. Apply Good manners and etiquette at work place.

**(OR)**

14. Identify the qualities of a successful leader.

15. Analyse the aspects of Holistic Development of personality as envisaged in Bhagavad Gita.

**(OR)**

16. Examine Personality of Role Model as said in Bhagavad Gita.

17. Explain the Historical Perspective of Yoga in brief.

**(OR)**

18. How would you like to classify the Types of Stress and Relaxation Techniques?

**[P.T.O]**

**SECTION-C**

**III. Case Study Compulsory**

**1X10=10M**

19. Mr. Afroz an organizational consultant. He found personalities nametags are important in the work place and we must interact with one another But, sometimes interactions can lead to conflict because of the clashes between traits dimensions for example, outspoken and reserved, impulsive and methodical, along with skeptical and accepting Besides, impulsive types usually foster more conflict than the others. This also being supported by some research because personality characteristics seem to affect whether the interpersonal conflict helps or hurts team performance It can be determine by the openness to experience and emotional stability of the employees. Conflict can affect team performance if there is low on some personality qualities. Plus, relationship between employees and supervisors can be weak if they have different personality on the big five modal except extraversion.

**Questions**

- a. Analyze the summary of the case.
- b. How would you like to examine the personality Traits which really influence the team's performance?
- c. Justify with your answer and list out the personality traits which help in strengthening the relationships between the employees and the supervisor.

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Room No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : Management  
Title of Paper : Business Analytics for Managerial Decision Making  
Paper Code : R22MBA105  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9am to 12pm  
Date : 09/03/2021

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**5X4=20M**

1. Importance of business analytics.
2. Data representation.
3. Measures of central tendency.
4. Cluster Analysis.
5. Type of research.
6. Kinds of analytics
7. Normal distribution.

**SECTION - B**

**II. Answer ALL the following Questions.**

**5X8=40M**

8. Define different kinds of analytics and explain types of analytical tools.

**(OR)**

9. Discuss Business Analytics as a Competitive Strategy.

10. Solve  $3x+6y=16$  and  $2x+3y=11$  using gauss elimination method.

**(OR)**

11. Solve the equations using matrix Cramer's method.

$$4x+5y+3z=15, 6x+4y-3z=19 \text{ and } 2x+y+6z=46$$

12. Explain probability and Counting Techniques.

**(OR)**

13. State prove Bayes theorem.

14. Define linear Regression and Multiple Regression.

**(OR)**

15. From the following data obtain the regression equation of X on Y.

X=5, 8, 9,12, 20 and Y=6,7,12,10,15 calculate the regression coefficient of Yon X.

16. Briefly describe the different steps involved in a research process.

**(OR)**

17. The following are the values taken from a three surveys. Calculate if the population means are equal or not at 95% confidence level.

I	II	III
10	12	15
12	15	10
15	10	12
18	11	18
19	16	14

**SECTION -B**

18. Answer the following Question.

**1X10=10M**

A researcher wants to test whether there is a significant difference in mean test scores among students who attended different types of schools. They randomly select 150 students from three types of schools: public, private, and charter, with 50 students from each type. Sample means are 67.5, 74.2 and 79.1 respectively. The test scores are normally distributed and have equal variances across the three groups. Test the hypothesis.

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I SEMESTER END EXAMINATIONS**

Class : I MBA  
Subject : Management  
Title of Paper : Managerial Communication  
Paper Code : R22MBA106  
W.E.F : 2022-23

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Paper Time : 9am - 12 noon  
Date : 11.03.2024

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**5X4=20M**

1. Communication Process.
2. Oral Communication.
3. Body Language.
4. Intercultural Communication.
5. Negotiation Skills.
6. Johari Window.
7. Business Letters.

**SECTION - B**

**II. Answer ALL the following Questions.**

**5X8=40M**

8. Define Communication. Explain the Importance and Characteristics of Communication.

**(OR)**

9. Explain the Barriers of Communication.

10. Explain the Non-Verbal Communication.

**(OR)**

11. Explain 1. Group Discussion.

2. Interviews

12. Define Listening. Explain the Importance and Types of Listening.

**(OR)**

13. Explain the 7 C's of effective written Communication.

14. Define Meeting. Explain the Notice, Agenda, Resolution and Minutes of Meeting.

**(OR)**

15. Explain the External Communication.

16. What do you mean by CV? Explain effective elements for a Good CV.

**(OR)**

17. Explain the Transactional Analysis.

**SECTION -C**

**III. Answer the following Questions.**

**1X10=10M**

Rajesh is working as a Sales Executive in Hero Automobiles Ltd. He is having different sales targets.

But he is not able to finish the monthly targets. He is not having good relationship with subordinates and higher officials. He is having conflict with everyone in the organisation. The top management has decided to take serious punishment to Rajesh. But Rajesh has decided to quit the job from organisation.

After one month Rajesh joined another automobiles organisation. Still, he is having same kind of nature in the present organisation. He is not able to do any work properly. He is struggling with in all sorts of works and relationships. Finally he realize his problem of not mingling with everyone and not able to do task in proper manner.

Q-1 If you are Rajesh situation, what will you do in the two Organisations?

Q-2 What type of skill Rajesh required in every stage of his both life and personal life?



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

Regd No: \_\_\_\_\_

Class : I M.Sc (DS)  
Subject : Computer Science  
Title of Paper : Programming With R and Python  
Paper Code : R23DS101  
W.E.F : 2023-24

Max Marks : 70

Pass Mark : 28

Duration : 3 Hrs

Time : \_\_\_\_\_

Date : \_\_\_\_\_

Time to 12pm

26/02/2024

**SECTION-A**

**I. Answer ALL the following Questions**

1. Explain about Control Statements in Python?

5X14=70M

(OR)

2. Explain about Operators in Python

3. Explain about Functions in Python.

(OR)

4. Explain about Lists in Python.

5. Explain about Inheritance in Python.

(OR)

6. Explain about Exception Handling in Python.

7. Explain about Data Frames and Vectors in R.

(OR)

8. Explain about Lists and Matrices in R.

9. Explain about R CSV Files.

(OR)

10. Explain about Bar Charts in R.

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Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I - SEMESTER END EXAMINATIONS**

Class : I M.Sc (DS)  
Subject : Computer Science  
Title of Paper : Data Structures  
Paper Code : R23DS102  
W.E.F : 2020-21

Max Marks : 70

Pass Mark : 28

Duration : 3 Hrs

Time : \_\_\_\_\_

Date : \_\_\_\_\_

9am to 12pm

28/02/2024

**SECTION-A**

5X14=70M

**I. Answer ALL the following Questions**

1. Explain about Data Structure Operations?

(OR)

2. Explain about Complexity of Algorithms and Asymptotic Notations.

3. Explain about Bubble Sort.

(OR)

4. Explain about Binary Search

5. Explain about Operations of Linked List.

(OR)

6. Explain about Linked Representation of Stacks.

7. Explain about Operations of AVL Trees.

(OR)

8. Explain about Operations of Binary Search Tree.

9. Explain about Traversing in Graphs.

(OR)

10. Explain about Selection Sort.

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I - SEMESTER END EXAMINATIONS**

Class : I M.Sc (DS)  
Subject : Computer Science  
Title of Paper : Database Management Systems  
Paper Code : R23DS103  
W.E.F : 2020-21

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hrs  
Time :  
Date :

9am to 12pm.  
01/03/2024

**SECTION-A**

5X14=70M

**I. Answer ALL the following Questions**

1. Explain about Advantages and Characteristics of DBMS?  
(OR)

2. Explain about EER Diagrams with Example

3. Explain about SELECT and PROJECT Operations.  
(OR)

4. Explain about Triggers and Views.

5. Explain about Fourth and Fifth Normal Forms.  
(OR)

6. Explain about Boyce Code Normal Forms.

7. Explain about Multilevel Indexing using B Trees  
(OR)

8. Explain about RAID Technology.

9. Explain about Multiple Granularity Locking.  
(OR)

10. Explain about 2PL for Concurrency Control.

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Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**PG I - SEMESTER END EXAMINATIONS**

Class : M.Sc(Data Science)  
Subject : STATISTICS  
Title of Paper : PROBABILITY AND STATISTICS  
Paper Code : R23DS404  
W.E.F : 2023-24

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hours  
Date : 04.03.2024  
Time : 09:00 to 12:00

**SECTION -A**

**Answer ALL of the following**

**5 X 14 = 70 M**

1. Explain probability models and State and prove bayes theorem.

**OR**

2. If all graduate students in the university 70% are women 30% are men. Suppose that 20% and 25% of the female and men population respectively smoke cigarettes. What is the probability that randomly selected graduate student is

i) A women who smokes    ii) A women who smokes    iii) A smoker

3. There are four fused bulbs in a lot of 10 good bulbs. If three bulbs are drawn at random with replacement, find the probability of distribution of the number of fused bulbs drawn?

**OR**

4. Define Binaomial distribution. Write its assumptions and properties.

5. What are two types of errors? Explain the procedure for testing of hypothesis.

**OR**

6. What are the steps involved in to test the significance difference between two means.

7. What is ANOVA ? Explain ANOVA two way classification.

**OR**

8. Find the Significance diference between treatments by using ANOVA one way analysis.

Treatments	A	8	10	12	8	7
	B	12	11	9	14	4
	C	18	12	16	6	8
	D	13	9	12	16	15

9. Find the regression lines to the following data-set

X	28	41	40	38	35	33	46	32	36	33
Y	30	34	31	34	30	26	28	31	26	31

**OR**

10. Fit multiple regression of X on Y and Z by using leastsquares technique.

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

Regd No: \_\_\_\_\_

Class : M.Sc(Data Science)  
Subject : COMUTERS  
Title of Paper : OPERATING SYSTEMS  
Paper Code : R23DS105  
W.E.F : 2023-24

Max Marks : 70  
Pass Mark : 28  
Duration : 3 Hours  
Date : 06.03.2024  
Time : 09:00 to 12:00

SECTION -A

**Answer ALL of the following**

**5 X 14 = 70 M**

- 1) Explain about Operating system services.  
(Or)
- 2) Explain about any two scheduling algorithms.
- 3) Explain about critical section problem.  
(Or)
- 4) Explain about deadlock handling, prevention and avoidance.
- 5) Explain about paging.  
(Or)
- 6) Explain about any two page replacement algorithms.
- 7) Explain about file system structures.  
(Or)
- 8) Explain about disk structure & scheduling.
- 9) Explain about types of Network based Operating systems.  
(Or)
- 10) Explain the features of android operating systems.