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R18

Course Code: A30013



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: BUSINESS MANAGEMENT & FINANCIAL ANALYSIS
(Common for CSE, IT, CSC & CSM)

Date: 19.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Define Management. 2 M
2. What is Motivation? 2 M
3. List out functions of HR Management. 2 M
4. Write a note on production Management. 2 M
5. Difference between Micro vs Macroeconomics. 2 M
6. What is the Importance of inflation? 2 M
7. Define cost. 2 M
8. Give brief note on theory of pricing. 2 M
9. Write current ratio formula. 2 M
10. What is accounting? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). What are the characteristics and explain principles of management? 10M
- OR**
11. B). Elucidate the contributions of Henry Fayol to Management human relations. 10M
12. A). Define system of production and explain functions of PPC. 10M
- OR**
12. B). Describe the concept of marketing mix with suitable examples. 10M
13. A). Illustrate the nature and scope of managerial economics. 10M
- OR**
13. B). How do you measure the elasticity of demand and write its limitations? 10M
14. A). Explain the demand – supply schedule for equilibrium price. 10M
- OR**
14. B). Define cost and describe types of costs. 10M
15. A). What are the conventional and non-conventional sources of financing business enterprise? Explain. 10M
- OR**
15. B). Define ratio and explain various types of ratios with suitable examples. 10M

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R18

Course Code: A30163



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: AIR POLLUTION AND CONTROL

(Common for EEE, ME, ECE, CSE, IT CSC & CSM)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. List out the components of clean, dry air. 2 M
2. Give any four examples for natural contaminants. 2 M
3. Write a note on Solar radiation. 2 M
4. Discuss the term humidity. 2 M
5. Classify the sampling methods. 2 M
6. How plastic containers used as samplers? 2 M
7. What are the objectives of using control equipment? 2 M
8. List out the advantages of settling chambers. 2 M
9. Define Crank-case emission. 2 M
10. List some scheduled industries caused air pollution. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Write a detail note on: 10M
i) Radiation inversion ii) Subsidence inversion
- OR**
11. B). Summarize the influences of sulphur dioxide & hydrogen sulphide as air pollutants. 10M
12. A). Tabulate the types of plumes and their characters. 10M
- OR**
12. B). Elaborate primary meteorological parameters that influence air pollution. 10M
13. A). Explain about Absorbers – the sampling device. 10M
- OR**
13. B). Write a detailed note on dispersion equation. 10M
14. A). Summarize about Packed scrubbers. 10M
- OR**
14. B). Elaborate about Venturi scrubbers. 10M
15. A). Explain about formation of Photochemical Smog. 10M
- OR**
15. B). Discuss in detail about Prevention and air Pollution Act,1981. 10M

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R18

Course Code: A30166



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: ENVIRONMENTAL PROTECTION AND MANAGEMENT
(Computer Science & Engineering)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Tell about the corporate responsibility for environmental protection. 2 M
2. List the objectives of environmental policy. 2 M
3. List the environmental performance indicators for an organization. 2 M
4. Infer the closing loops in industries 2 M
5. Define EMS. 2 M
6. List the benefits of ISO 14001 certification. 2 M
7. Define Environment Audit. 2 M
8. List the principles of ISO Audit. 2 M
9. Name the effects of water pollution. 2 M
10. Give the sources for waste generation. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain unique characteristics of environmental problems with example. 10M
- OR**
11. B). Summarize the drivers for sustainable development. 10M
12. A). Categorize the emission and ambient standards. 10M
- OR**
12. B). Outline the objectives and benefits of an environmental performance evaluation. 10M
13. A). Discuss the components of EMS with a neat sketch. 10M
- OR**
13. B). Explain pollution prevention techniques with a neat sketch of pollution prevention hierarchy. 10M
14. A). Interpret the requirements to become Environmental Auditor. 10M
- OR**
14. B). Describe Management system audits as per ISO 19011. 10M
15. A). Briefly discuss the applications of EMS and waste audits. 10M
- OR**
15. B). Explain Hazard waste characteristics. 10M

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R18

Course Code: A30357



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: FUNDAMENTALS OF MANUFACTURING PROCESS
(Civil Engineering)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What is the function of riser? 2 M
2. Recall the advantages of casting. 2 M
3. List welding defects. 2 M
4. Distinguish between soldering and brazing. 2 M
5. List the applications of stamping process. 2 M
6. Explain bending process. 2 M
7. Define impact extrusion process. 2 M
8. What is forward extrusion? 2 M
9. List out forces in forging operation. 2 M
10. Explain rotary forging process. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Illustrate Investment casting process with advantages and limitations. 10M
- OR**
11. B). i) Explain the centrifugal casting process with a neat sketch. 5M
ii) List various casting defects and its remedies. 5M
12. A). Explain i) Thermit welding process ii) Explosive welding process. 10M
- OR**
12. B). Compare TIG welding and MIG welding process. 10M
13. A). Illustrate hot and cold spinning process. 10M
- OR**
13. B). Explain various types of presses and press tools. 10M
14. A). Distinguish between tube extrusion and pipe making 10M
- OR**
14. B). Compare forward and backward extrusion. 10M
15. A). Explain i) Smith forging ii) Drop forging iii) Roll forging 10M
- OR**
15. B). List forging defects, causes and remedies in detail. 10M

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R18

Course Code: A30559



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: INTRODUCTION TO DATA SCIENCE

(Electronics & Communication Engineering)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are the steps involved in web scrapping? 2 M
2. What is the use of Numpy? 2 M
3. What are the uses of Barcharts? 2 M
4. How to remove missing values from a data set? 2 M
5. Compare over fitting with under fitting. 2 M
6. What is train and test data? 2 M
7. What is classification error? 2 M
8. What are the properties of time series data? 2 M
9. What is the role of data scientist in a data science project? 2 M
10. What are the applications of data science? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain the operations on Numpy arrays with python code. 10M
- OR**
11. B). Create a scatter plot using matplotlib library with python code. 10M
12. A). Discuss barcharts and linecharts plots with python code. 10M
- OR**
12. B). How to extract the data from twitter API using python? 10M
13. A). Explain the naive bayes machine learning algorithm and apply to a data set? 10M
- OR**
13. B). Discuss Support vector machines with examples. 10M
14. A). Explain random forest machine learning algorithm with examples. 10M
- OR**
14. B). Explain the steps in analysis of time series data. 10M
15. A). Discuss the case study on stock market prediction with sample data. 10M
- OR**
15. B). Discuss the case study on object recognition with sample data. 10M

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R18

Course Code: C30165



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **BASICS OF INSURANCE & TAXATION**

(Common for ECE, CSE, IT & CSM)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are the principles of Life Insurance? 2 M
2. Write a short note on fire insurance. 2 M
3. Describe retention limit. 2 M
4. What do you understand by the term Claim Settlement? 2 M
5. Contrast Income tax rate structure in 2023. 2 M
6. Relate Non-Resident persons and Non-Ordinary Resident. 2 M
7. Describe Fringe Benefit Tax. 2 M
8. How Double Taxation Relief is given? 2 M
9. How is the tax refunded? 2 M
10. What is TAN? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain in detail about motor insurance. 10M
- OR**
11. B). What are the various types of General Insurance? 10M
12. A). Outline various methods of Re-insurance. 10M
- OR**
12. B). Write a brief note on Insurance ombudsman. 10M
13. A). Explain the fundamental principles of income tax. 10M
- OR**
13. B). Contrast Tax structure and its role in Indian Economy. 10M
14. A). Analyze the Exemptions and Deductions under the Income Tax Act. 10M
- OR**
14. B). How income from House property is calculated? 10M
15. A). Summarize various types of assessment procedures. 10M
- OR**
15. B). Write a brief note on TDS. 10M

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R18

Course Code: C30167



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **MARKETING MANAGEMENT**

(**Electronics & Communication Engineering**)

Date: 22.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are loyalty relationships? 2 M
2. Define strategy. 2 M
3. State the importance of Marketing research. 2 M
4. What is Skimming Pricing? 2 M
5. Describe Pricing strategy. 2 M
6. What is meant by online promotion for a product? 2 M
7. Discuss the importance of retailer in Marketing. 2 M
8. What are the roles of a Wholesaler? 2 M
9. What is sales management? 2 M
10. Define Sales Objectives. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). What are the various factors that needs to be kept in mind while forming a Marketing Strategy? Explain with illustration. 10M

OR

11. B). What is Product life cycle? Explain different phases of Product Life cycle. 10M

12. A). Why is it important to study consumer behavior? Identify the factors that influence consumer buying behavior. 10M

OR

12. B). What is Segmentation Targeting Positioning? What are the four types of market segmentation? 10M

13. A). Explain the communication process. Describe the various elements of the promotion mix with examples. 10M

OR

13. B). Discuss about Advertising Strategies and explain how this helps in increase of Sales. 10M

14. A). What are the steps followed by companies for managing their retailers? 10M

OR

14. B). What are roles and functions of Marketing Channels? 10M

15. A). Explain the skills required for Sales Manager with examples. 10M

OR

15. B). Explain different types of Sales Organizations. 10M

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R18

Course Code: A30160



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: DISASTER MANAGEMENT AND MITIGATION
(Common for ME, CSE & IT)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What is environmental hazard? 2 M
2. Define environmental stress. 2 M
3. Give examples of natural disasters. 2 M
4. Differentiate exogenous and endogenous hazards 2 M
5. What are causes of landslides? 2 M
6. Mention different types of volcanic disasters. 2 M
7. Distinguish between tropical cyclones and local storms. 2 M
8. Define heat wave floods. 2 M
9. What is an emergency stage in disaster management? 2 M
10. Define pre-disaster stages 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain the various disasters affecting the environment. 10M
- OR**
11. B). Explain in detail, the different approaches to restore ecology. 10M
12. A). Explain the various types of environmental hazards. 10M
- OR**
12. B). Explain the different types of man induced disasters effecting the environment. 10M
13. A). Discuss the methods that can be adopted to reduce the effect of volcanic eruption. 10M
- OR**
13. B). How the mitigation and perception of earthquake is done in India? Explain. 10M
14. A). Explain the types of drought and drought preparedness with Mitigation 10M
- OR**
14. B). What are the factors influencing the soil erosion and explain the different methods of conservation measures of soil erosion. 10M
15. A). Explain in detail role of preparedness in disaster management. 10M
- OR**
15. B). Explain the significance of rehabilitation in the disaster management. 10M



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **FUNDAMENTALS OF ENGINEERING MATERIALS**
(Civil Engineering)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

- | | | |
|-----|---|-----|
| 1. | What are the different methods available to measure a grain size? | 2 M |
| 2. | Draw (0 1 0), (1 1 0) planes in a cubic crystal. | 2 M |
| 3. | What is Gibb's phase rule? | 2 M |
| 4. | What is a eutectoid system? Give an example. | 2 M |
| 5. | What is the difference between annealing and normalizing? | 2 M |
| 6. | What is the name of the reaction that yields two solid phases from one solid phase during phase transformation? | 2 M |
| 7. | What is the difference between grey cast iron and white cast iron? | 2 M |
| 8. | What are the specialties of aluminum over steel? | 2 M |
| 9. | What are the advantages of ceramics? | 2 M |
| 10. | What are the advantages of polymers over ceramics? | 2 M |

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- | | | |
|-----------|--|-----|
| 11.A). | Define atomic packing factor and calculate the atomic packing factor of B.C.C crystal. | 10M |
| OR | | |
| 11. B). | Explain the Hume-Rothery's rules of alloying. | 10M |
| 12. A). | Explain Eutectic and Eutectoid conditions with examples. | 10M |
| OR | | |
| 12. B). | List down the different types of binary phase diagrams. Explain any two of them with neat sketches. | 10M |
| 13. A). | Sketch and explain binary phase diagram of Fe-Fe ₃ C. | 10M |
| OR | | |
| 13. B). | Write short notes on the following | 10M |
| | i) Annealing | |
| | ii) Normalising | |
| | iii) Hardening. | |
| 14. A). | Explain properties and applications of gray cast iron and malleable cast iron with a neat sketch. | 10M |
| OR | | |
| 14. B). | Enumerate on different types of aluminum alloys. Highlight their general characteristics and applications. | 10M |
| 15. A). | Briefly explain the properties and applications of ceramics? | 10M |
| OR | | |
| 15. B). | Discuss the importance of composite materials in Engineering Applications. | 10M |

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Course Code: A30531



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: PYTHON PROGRAMMING

(Common for ME, ECE, CSE & IT)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Define variable in python and list the rules of python variables. 2 M
2. List different types of operators with its token. 2 M
3. Define local and global scope with syntax. 2 M
4. Define Exception. 2 M
5. Explain Recursion and python Recursive function. 2 M
6. List out different types of file modes in python. 2 M
7. Differentiate class and instance variables (or attributes). 2 M
8. Illustrate python program to show inheritance in python programming. 2 M
9. Explain tkinterWidgets like button, label, textbox. 2 M
10. Explain use of turtle module in python. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). What are the different loop control statements available in Python? Explain with suitable examples. 10M
- OR**
- 11.B). Examine how python supports regular expressions through 're' module with brief introduction and various built-in methods related to it. 10M
12. A). Explain exception handling key words with example. 10M
- OR**
12. B). Explain difference between parameter and arguments in functions and explain with an example. 10M
13. A). Differentiate lists, tuples, dictionaries and sets. 10M
- OR**
13. B). Explain string indexing and splitting indetail. 10M
14. A). Illustrate oops of python in detail. 10M
- OR**
14. B). Explain inner and outer classes with example. 10M
15. A). Analyze the following geometry managers 10M
i) Pack() method ii) Grid() method iii) Place() method
- OR**
15. B). Explain how to Add a Dash of Colour and two dimensional shapesin turtle module. 10M

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R18

Course Code: A30554



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **JAVA PROGRAMMING**

(Mechanical Engineering)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)
Each question carries TWO marks.

10x2=20M

1. Make use of How does method overloading work? 2 M
2. Define constructor. 2 M
3. What are the uses of final keyword? 2 M
4. Summarize Abstract class. 2 M
5. Elaborate the StringBuffer class. 2 M
6. Illustrate the User Define Exceptions. 2 M
7. Define Thread Priority. 2 M
8. How may Thread be implemented using Runnable Interface? 2 M
9. Simplify the Random-Access File. 2 M
10. How to use Scanner class? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain the features of java (Java Buzz words). 10M
- OR**
11. B). Write a program in java to do the following: 10M
- i) To swap the two numbers without using the third variable.
 - ii) Factorial of a number using recursion.
12. A). Illustrate the inner class. Create a Java program that uses command-line arguments to add two numbers. 10M
- OR**
12. B). Demonstrate an interface with an example program and explain abstract classes. 10M
13. A). How packages are created and accessed in Java. Briefly explain the naming convention in packages. 10M
- OR**
13. B). How to handle exceptions in Java? explain with an example program. 10M
14. A). Identify the steps in creating a thread using Thread class with example. 10M
- OR**
14. B). Explain about synchronization with an example. 10M
15. A). Create a Java program that will write the records to the file. 10M
- OR**
15. B). Make quick notes about 10M
- i) BufferedInputStream
 - ii) BufferedOutputStream

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R18

Course Code: A30555



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
(Electronics & Communication Engineering)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Explain different types of database users. 2 M
2. Illustrate different set operations with an example. 2 M
3. What is View Adaptability? 2 M
4. List out the limitations of Views. 2 M
5. Discuss the basic form of SQL query. 2 M
6. Write SQL syntax to perform Update on databases. 2 M
7. List and brief Control statements in SQL. 2 M
8. Explain Recursive functions in SQL. 2 M
9. Define redundancy with an example. 2 M
10. Describe properties of decompositions. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Write the applications of Database system. Make a comparison between Database system and File system. 10M

OR

11. B). List and Explain various Operations in Relational Algebra with an Example. 10M

12. A). How can you create an Index on table? Explain with an example. 10M

OR

12. B). What is View? List out the advantages and disadvantages of views. 10M

13. A). Define the Operators which is used to combine results of different tables with an example. 10M

OR

13. B). Compare Nested query and correlated query. Discuss with suitable example. 10M

14. A). What is Curser? Explain implicit and explicit curser in SQL. 10M

OR

14. B). What is a Procedure? Explain Procedure syntax with example. 10M

15. A). Why do we require Normalization? Explain any two Normal forms. 10M

OR

15. B). Using an example convert the data into first normal form and second normal form. 10M

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R18

Course Code: A36716



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: EXPLORATORY DATA ANALYSIS
(Minor in DS)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)
Each question carries TWO marks.

10x2=20M

1. Define exploratory data analysis. 2 M
2. List the basic data types in exploratory data analysis 2 M
3. Justify the impotence of handling missing data. 2 M
4. What does it means of Convergence? 2 M
5. Differentiate Continuous and categorical variables 2 M
6. What is Statistical sets? 2 M
7. Justify how clustering is used to detect Outlier. 2 M
8. What is Gini Index? 2 M
9. List the optimality Properties of Principal Components. 2 M
10. Differentiate Standardised Data and High-Dimensional Data. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Explain about steps in Data analytic life cycle. 10M
- OR**
11. B). Explain about four types of Exploratory Data Analysis. 10M
12. A). Discuss the Single Imputation Methods for dealing missing data with example. 10M
- OR**
12. B). Discuss about testing of multiple parameters in multiple imputation. 10M
13. A). Discuss in detail about measures of central tendency in 1-D statistical data analysis with example. 10M
- OR**
13. B). Explain about 2-D Analysis of Two Categorical Variables with example. 10M
14. A). Explain the three methods for Outlier Detection with Categorical Data 10M
- OR**
14. B). Illustrate the process of feature selection using wrapper model and embedded model. 10M
15. A). Explain about Metric and Non-Metric Multidimensional Scaling Methods. 10M
- OR**
15. B). Explain about Regression using Canonical correlations. 10M

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R18

Course Code: C30162



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: KNOWLEDGE MANAGEMENT

(Common for ME, ECE, CSE, CSC & CSM)

Date: 27.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What is the relationship between Knowledge and Wisdom? 2 M
2. List out the characteristics of Organizational Knowledge. 2 M
3. Explain the relevance of Data Mining in Knowledge Management. 2 M
4. Identify the significance of BPR in Knowledge Management. 2 M
5. Examine the future of knowledge Management. 2 M
6. Examine the challenges of knowledge Management. 2 M
7. Interpret the concept of Customer Relationship Management. 2 M
8. Explain the relevance of Business Ethics in Knowledge Management. 2 M
9. Inspect the uses of Web Portals. 2 M
10. Define the role of Information Architecture. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Appraise the UNESCO's recommendations on Building Knowledge Societies. 10M
- OR**
11. B). Propose recommendations on leveraging knowledge for the success of an organization. 10M
12. A). Explain various Knowledge Management tools. 10M
- OR**
12. B). Analyze the process of creating effective Knowledge Management Systems through Information Technology. 10M
13. A). Critically appraise the Knowledge Management in Service Industry. 10M
- OR**
13. B). Summarize the road to Knowledge Management of any two Organizations. 10M
14. A). Illustrate the promise of Internet in Knowledge Management process. 10M
- OR**
14. B). Explain various stages of Knowledge Management process. 10M
15. A). Write a short note on Business Intelligence and Internet Platforms. 10M
- OR**
15. B). Elaborate on the Roadblocks to Successful implementation of Knowledge Management. 10M

H.T No:

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R18

Course Code: A30542



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **CLOUD COMPUTING**

(Common for CE, EEE, ME, ECE, CSE & CSC)

Date: 30.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. Define High-Performance computing. 2 M
2. What is Nano computing? 2 M
3. Define Cloud computing. 2 M
4. What are the principles of Cloud computing? 2 M
5. Discuss applications of the cloud. 2 M
6. List out various layers of the cloud architecture. 2 M
7. What are the characteristics of IaaS? 2 M
8. Define Software as a Service. 2 M
9. Define Google Cloud Connect. 2 M
10. What is EMC? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Write a short note on the following: 10M
- i) Cluster Computing
 - ii) Grid Computing
 - iii) Mobile Computing
 - iv) Quantum Computing
 - v) Optical Computing

OR

11. B). Differentiate Parallel Computing and Distributed Computing. 10M
12. A). What are the five essential characteristics of cloud computing? 10M

OR

12. B). Describe four cloud deployment models. 10M
13. A). Elaborate Network connectivity in Cloud computing. 10M

OR

13. B). How to manage the cloud infrastructure? 10M
14. A). What are the characteristics of PaaS? Write its pros and cons. 10M

OR

14. B). Explain various characteristics of SaaS and write its pros and cons. 10M
15. A). Discuss Amazon Web Services. 10M

OR

15. B). Describe Captiva Cloud Toolkit in detail. 10M

H.T No:

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R18

Course Code: A30557



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **WEB PROGRAMMING**

(**Electronics & Communication Engineering**)

Date: 01.05.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are different types of links that can be created in html? 2 M
2. Define the three main elements of a table in html. 2 M
3. Define CSS properties. 2 M
4. Write any five html tags. 2 M
5. Define the functions in java script. 2 M
6. What is objects in java script? 2 M
7. Define DTD. 2 M
8. What is xml schema? 2 M
9. What is event? 2 M
10. Define DOM. 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Give detailed description on lists in html. 10M
- OR**
11. B). What are different parts of table in html with example? 10M
12. A). Discuss the different font families available in html. Write any five example tags with script. 10M
- OR**
12. B). What is frameset? Give the advantage and disadvantage of frameset. 10M
13. A). Explain in detailed the built in objects in java script. 10M
- OR**
13. B). Write a java script to display the day in a week using while loop. 10M
14. A). Write a xml schema that defines a complex type employ. The employe complex has three elements eid, name and salary. The name is of type string, id is of type integer and salary is of type integer. 10M
- OR**
14. B). What is DOM? Explain in detail. 10M
15. A). Different between traditional SAX Vs AJAX applications. 10M
- OR**
15. B). Brief demo on AJAX. 10M

H.T No:

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R18

Course Code: A30537



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: DATA ANALYTICS WITH R

(Computer Science & Engineering)

Date: 01.05.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are the different ways to run R? 2 M
2. What is a data frame? How to access data frames? 2 M
3. List the phases of data exploration. 2 M
4. How to detect dirty data in the data exploration phase? 2 M
5. List any four built in math functions. 2 M
6. List any four set operations supported in R. 2 M
7. What is the use of plot() function? 2 M
8. How to save graphs to a file? 2 M
9. List any two decision tree algorithms. 2 M
10. How to represent decision trees in R? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Define Vector. With suitable examples illustrate the following operations: 10M
- i) Arithmetic and Logical Operations
 - ii) Vector Indexing
 - iii) Generating Vector Sequences with seq()

OR

11. B). Illustrate the following operations with examples. 10M
- i) Linear Algebra Operations
 - ii) Matrix Indexing
 - iii) Matrix Filtering

12. A). Explain the type of Visualization that is used for finding the relationship among multiple Variables. 10M

OR

12. B). Discuss in brief the different visualization techniques and the plotting features supported in R to perform exploratory data analysis. 10M

13. A). With an example illustrate the linear algebra operations on vectors and matrices. 10M

OR

13. B). Write short notes on the different functions supported for statistical distribution. 10M

(P.T.O.)

14. A). How to customize the graphs? Explain the options supported to enhance the graph. 10M

OR

14. B). Illustrate with an example simple regression analysis using linear model function. 10M

15. A). How clustering can be used for the exploratory analysis of the data? Explain with an example. 10M

OR

15. B). Explain in detail any one of the classification methods. 10M
