

Enrollment No.....

Master of Computer Application
Fifth Semester Main Examination, Dec-2020
Data Warehousing & Mining [MCA501]

Time: 3:00 Hrs

Max Marks 70

Note: Answer any five questions. All questions carry equal marks.

- Q.1 (a) Explain all challenges arise during data mining.
(b) Explain data mining issues related to performance. How these issues can be resolved?
- Q.1 What is Data Mining and Write down the applications of data mining?
- Q.2 What is Data Transformation? Explain it?
- Q.3 How is a data warehouse different from a database? How are they similar? Explain.
- Q.4 What do you understand by the term OLAP? List the various types of OLAP operations.
- Q.5 Specify the five criteria for the evaluation of classification and prediction.
- Q.6 Write a short notes
a. Spatial data mining
b. Tree Induction algorithm.
- Q.7 Discuss major issues in data mining regarding mining methodology and user interaction.

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Master of Computer Application
Fifth Semester Main Examination, Dec-2020
Unix & Shell Programming [MCA502]

Time: 3:00 Hrs

Max Marks 70

Note: Answer any five questions. All questions carry equal marks.

- Q.1 What is Unix operating system and explain its architecture?
- Q.2 Describe Kernel and Shell in Unix Operating System ?
- Q.3 Write the difference between DOS Operating System and Unix Operating System?
- Q.4 How INODES is assigned to a new file ? Explain with algorithm ?
- Q.5 Describe Inter Process Communication and Multiprocessor System ?
- Q.6 Write the Syntax of STAT and FSTAT.

Q.7 Explain absolute path name and relative path name.

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Master of Computer Application
Fifth Semester Examination, Dec-2020
Cloud Computing [MCA503]

Time: 3:00 Hrs

Max Marks 70

Note: Answer all questions. All questions carry equal marks.

- Q.1 (a) What is cloud computing and explain its characteristics also?
(b) Explain cloud computing services and its business applications.
OR
(a) Explain the various reasons for adopting the cloud computing?
(b) Explain cloud computing architecture and cloud components?
- Q.2 (a) What is the need of virtualization? Define server virtualization, application virtualization and presentation virtualization.
(b) Explain cloud computing environments and cloud computing Reference models.
OR
(a) What are the types of clouds? Explain in details.
(b) How can a block-level virtualization implementation be used as a data migration tool? Explain how data migration will be accomplished.
- Q.3 (a) Give a business case explaining why one should go to the cloud is cloud secure.
(b) Write short notes on:-
(i) Cloud services aimed at the mid-market
(ii) Third party cloud services.
OR
(a) Explain a user view of Google app engine with suitable block schematic.
(b) Illustrate the main features of azure cloud platform.
- Q.4 (a) Discuss the architecture of a computer system before and after virtualization.
(b) What is virtualization? Explain the importance of memory virtualization.
OR
(a) Explain in detail about architecture of map reduce and how to running a job in Hadoop.
(b) Explain cloud computing architecture and cloud components.
- Q.5 Explain in detail about application level security in:-
i) SAAS ii) PAAS iii) LAAS

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Master of Computer Application
Fifth Semester Main Examination, Dec-2020
Organizational Behavior [MCA504 II (B)]

Time: 3:00 Hrs

Max Marks 70

Note: Answer any five questions. All questions carry equal marks.

- Q.1 (a) Differentiate between Formal Group and Informal Group. Why informal group comes into existence?
(b) " Behavioral theories of Leadership are static". Do you agree or not?
- Q.2 (a) Define Learning. Describe various theories of learning.
(b) Discuss the role of Personality, Attitude and Perceptions.
- Q.3 (a) Define Motivation. Discuss how Vroom's Expectancy Theory can motivate managers.
(b) Differentiate between need and process theories of motivation.
- Q.4 (a) Discuss various types of conflict.
(b) Define following:
i) Job Attitude
ii) Perception
- Q.5 (a) Write a short note on Managerial Grid theory.
(b) How is organizational culture analyzed? What are the different levels of organizational culture?
- Q.6 (a) What are the causes of stress at workplace? How can these caused be removed?
(b) Write short note on stress management techniques.
- Q.7 Write short note on following:
i) Team Effectiveness model
ii) Emotional Intelligence and Leadership
iii) Relationship of culture with OB.
- Q.8 Define following:
i) Classification of Group
ii) Stages of Group Development
iii) Group vs Team

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Master of Computer Application
Fifth Semester Main Examination, Dec-2020
Distributed Systems [MCA505 III (A)]

Time: 3:00 Hrs

Max Marks 70

Note: Answer any five questions. All questions carry equal marks.

- Q.1 (a) What are the Goals of Distributed Systems? Explain any two in details?
(b) Explain the client server models in details by using diagram?
- Q.2 (a) What is Distributed Shared Memory (DSM)? Describe its architecture.
(b) What is code migration means? Write the process of working?
- Q.3 (a) What is mean by Threads? Explain the threads in Distributed Systems?
(b) Explain the Architecture of distributed security in distributed systems?
- Q.4 (a) What is API for internet protocol?
(b) Discuss the various concurrency control protocols.

- Q.5 (a) Differentiate Static and Dynamic RMI.
(b) What is Concurrency control in distributed databases.
- Q.6 (a) Discuss the major issues in designing a distributed operating system? Explain the main characteristics of a distributed event based system?
(b) Define Fault Tolerance. Explain in brief with example?
- Q.7 (a) What are the requirements for distributed mutual exclusion algorithms?
(b) Explain in detail the deadlock handling strategy?
- Q.8 Short note on: (Any three define with example)
(A) JAVA RMI
(B) CORBA
(C) RPC
(D) SSL (Secure Socket Layer)