

MCA-121

MCA-21

**M.C.A. DEGREE EXAMINATION –
JUNE, 2018.**

Third Year

RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write the features of Database Management System.
2. Give an account on navigation efficiency.
3. Write the comments on the relational model.
4. Write short notes on types of databases.
5. Create a table to store the Employee datas and insert the values into Employee table.
6. Write short notes on Embedded SQL statements.
7. Explain in detail about Physical files.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Illustrate about relational model.
9. With help of a neat block diagram explain the basic architecture of a database management system.
10. Explain the following :
 - (a) Network System Table
 - (b) CPU
11. Assume the following table.

Degree(degcode, name, subject)

Carididate(seatno, degcode, name, semester, monthy, year, result)

Marks(seatno, degcode, semester, month, year, papcode, marks)

Degcode : degree code

Name-Name of the degree(MCA, MSc)

Subject-Physics, Chemistry etc

Papcode : eg. A1

Solve the following queries using SQL

- (a) Write a **SELECT** statement to display all the degree codes which are three in the candidate table but not present in degree table in order of degcode.
 - (b) Write a **SELECT** statement to display the name, subject and number of candidates for all degrees in which there are less than 3 candidates.
12. Explain in detail about sub queries with suitable example queries.
 13. Illustrate about renaming and drop the existing table using SQL query.
 14. Discuss about indexes in detail with an example.

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CLIENT SERVER TECHNOLOGY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write about main frame.
2. Give an account on Client service.
3. List out the advantages of Client/Server computing.
4. Write short notes on windows services.
5. Explain in detail about Novell network.
6. Write short notes on Power Builder.
7. Explain plat from migration in detail.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain the following :
 - (a) Remote boot services
 - (b) Server Functionality.
 9. Describe in detail about centric client/server computing.
 10. Illustrate about Inter process communication (IPC).
 11. Describe in detail about OLE/CORBA.
 12. Explain in detail about System Application architecture (SAA).
 13. Illustrate about SQL windows.
 14. Discuss about open system interconnect (OSI) in detail.
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**M.C.A. DEGREE EXAMINATION —
JUNE, 2018.**

Third Year

MULTIMEDIA SYSTEMS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Define Multimedia, need of it, advantages and disadvantages of multimedia.
2. Write about Multimedia platforms.
3. Explain Image compression standards.
4. Write short note on the components of Multimedia.
5. Brief about object oriented Multimedia.
6. Write short note on Multimedia environment — CDi.
7. Describe about Media in real life.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe in detail about Multimedia development tools and its types.
9. Explain in detail about media types with example.
10. Elaborate evaluation of compression techniques.
11. Explain in detail about the overview of Multimedia frameworks.
12. Write in detail about transform classes.
13. Describe in detail about multimedia architecture and operations.
14. Explain about the applications of multimedia.

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Third Year

DISTRIBUTED COMPUTING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. What do you mean by load balancing?
2. Compare Bus vs. Switched multiple computers.
3. How Client Server applications make data processing easier?
4. Define Atomic Transaction and Explain with an usecase.
5. Discuss the usage of Threads and its implementation.
6. Write short notes on Distributed DBMS.
7. Outline recovery mechanism in DBMS.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain Design issues encountered in Time based Distributed System.
 9. With a neat sketch explain Remote Procedure Call.
 10. Discuss the components required in implementation of client server model.
 11. Explain Election Algorithm.
 12. Discuss clock synchronization in distributed system applications.
 13. Brief on Distributed Catalog Management.
 14. Discuss various concurrency control methods.
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MCA-25

**M.C.A. DEGREE EXAMINATION –
JUNE 2018.**

Third Year

NETWORK PROGRAMMING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write the benefits of Java Scripts
2. Write the overview of Active X scripting.
3. How to create Active X documents? Explain.
4. Give an account on URL Monickers.
5. Write short notes on Hyper linking.
6. Give an account on Active X Technology.
7. Write short notes on Testing the DLL.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe in detail about Active X Document Architecture.
 9. Write a Java Script to perform student mark sheet preparation.
 10. Explain the following:
 - (a) Hyperlink Interface
 - (b) Migration Wizard.
 11. Describe about designing IIS applications.
 12. Explain in detail about DHTML Applications.
 13. Illustrate about Launching and testing Document.
 14. Discuss about ISAPI Filter.
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