

MCA-121

MCA-21

**M.C.A. DEGREE EXAMINATION —
DECEMBER 2018.**

Third Year

**RELATIONAL DATABASE MANAGEMENT
SYSTEM**

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. List five responsibilities of a database management system. For each responsibility, explain the problems that would arise if the responsibility were not discharged.
2. What are the different mappings that are involved in the database architecture?
3. Give some examples of the background process that Oracle can generate.
4. Explain the functionality of a client - server system.
5. Briefly describe SQL queries and subqueries.

6. How does a SQL query work with NULL values? Explain with an example.
7. How to handle exceptions for the drop table and create table scripts?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8.
 - (a) Explain the types of databases used in oracle.
 - (b) List the properties of relational database with a suitable example.
9.
 - (a) Give an overview of Oracle architecture.
 - (b) Explain the major functions and components of DBMS.
10. Write a SQL query, without using a with clause, to find all branches where the total account deposit is less than the average total account deposit at all branches,
 - (a) Using a nested query in the from clause.
 - (b) Using a nested query in the having clause.
11. What are the two approaches to accessing SQL from a general – purpose programming language. Explain embedded SQL in detail.

12. Explain in detail about the different relational operations.
 13. How to create and modify tables with suitable privileges required? Explain it with an example.
 14. What is DML? Explain in detail with an example.
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MCA-22

**M.C.A. DEGREE EXAMINATION –
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Third Year

CLIENT SERVER TECHNOLOGY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain in brief about the centric Client/Server Computing.
2. What is the need for downsizing the Client/Server Technology?
3. What are the server components in Client/Server Environment?
4. Explain in brief about CORBA.
5. What are the operating systems used in the Server Environment?

6. Explain in brief about SAA in Client/Server Technology.
7. What are the hardware components in Client/Server Technology?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain about Client/Server Computing and its advantages.
9. (a) Explain in mainframe used in Client/Server Computing.
(b) Explain in detail about RPC.
10. Explain in detail about the Client components in client/server computing.
11. (a) Explain in detail about the OSI IPC in Client/Server Computing.
(b) Explain about the WAN Technology in detail.
12. Explain the Workbench Architecture and Information engineering facility Architecture in detail.

13. (a) Describe in detail about the EASEL Workbench.
 - (b) Illustrate in detail about the Client framework.
14. Explain in detail about the Client framework.

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MULTIMEDIA SYSTEMS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short note on Multimedia system components.
2. Write about Multimedia standards.
3. Write about any two image compression standards.
4. Explain about Non temporal media types.
5. Brief about Multimedia Objects and Classes.
6. Write short note on Multimedia environment — CD-i.
7. Write short note on Media in real world.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Describe in detail about Multimedia Commercial Tools.
 9. Elaborate Video compression techniques.
 10. Explain in detail about image and video compression.
 11. Describe in detail about Multimedia frameworks.
 12. Explain about Transform Classes.
 13. Write a detailed note on Multimedia on Networks.
 14. Explain the advantages of Multimedia in Training and Education field.
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MCA-24

**M.C.A. DEGREE EXAMINATION –
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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. List the characteristics of Distributed System
2. Discuss Design issues: Transparency and Scalability.
3. Provide your view on Client Server Model
4. Write short notes on Mutual exclusion
5. Explain usage of threads in process management
6. Discuss trends in distributed file system
7. Brief on Recovery mechanism in Distributed System.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions

8. Explain various Distributed Computing Models
 9. Briefly explain on Network Operating System
 10. Compare blocking and Non-Blocking primitives and Explain
 11. Discuss Deadlock management mechanism
 12. Write short notes on process allocation
 13. Sketch and explain distributed DBMS architecture
 14. Describe concurrency control in Distributed Systems.
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MCA-25

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

Third Year

NETWORK PROGRAMMING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short note on standalone scripts.
2. Explain about Active X Controls.
3. Write about hyper linking.
4. What is IIS and how it works.
5. Explain about URL Monikers.
6. Describe the launching process of Active X documents.
7. Explain how a DLL is tested.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Write an overview of Active X Scripting.
 9. Explain about the creation of Active X controls.
 10. Write about the creation of Active X Documents.
 11. Discuss about the working of URL.
 12. Write about ISAPI.
 13. Describe about building IIS applications.
 14. Discuss about building DHTML Applications.
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