

MCA-221

MCA-21

**M.C.A. DEGREE EXAMINATION
JUNE 2019.**

Third Year

RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Briefly explain the purpose of database systems.
2. What are the properties of a relational database systems?
3. Explain the logical structure of Oracle with a diagram.
4. What is meant by database objects? Brief its types.
5. How does the SQL combines the multiple queries to produce a single result?

6. Describe the circumstances in which you would choose to use embedded SQL rather than SQL or only a general - purpose programming language.
7. Give a brief explanation about embedded sql statements.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain the concepts of relational databases with a suitable example.
9. Give a detailed description about the architecture of Oracle Database.
10.
 - (a) List a few major steps that you would take in setting up a database for a particular enterprise.
 - (b) Explain the major functions and components of DBMS.
11.
 - (a) Explain in detail about DML commands with examples.
 - (b) List the data access SQL commands Give examples.

12. Suppose that we have a relation marks(*student-id*, *score*) and we wish to assign grades to students based on the score as follows: grade F if score <40, grade C if $40 \leq \text{score} < 60$, grade B if $60 \leq \text{score} < 80$, and grade A if $80 \leq \text{score}$. Write the sql queries to do the following:
- (a) Display the grades of each student, based on the marks relation.
 - (b) Find the number of students with each grade.
13. (a) How to create a table with required privileges? Give an example.
- (b) How to modify, rename and drop a table? Give a suitable example.
14. Explain in detail about the languages supported by Oracle Precompiler.
-

M.C.A. DEGREE EXAMINATION – JUNE 2019.

Third Year

CLIENT SERVER TECHNOLOGY

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. List the advantages of Client/Server Computing.
2. How is mainframe useful in Client/Server Technology?
3. What are the client components in Client/Server Environment?
4. Explain in brief about RPC.
5. What are the platforms used in Client Server Environment?
6. Explain in brief about WAN Technology.
7. How Internet plays a major role in Client/Server Technology?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. (a) Explain about centric Client/Server Computing.
(b) Explain about Client/Server Development Tools.
9. (a) Explain the ways of presenting mainframe applications in Client/Server Computing.
(b) How to down size the client/server computing?
10. Explain in detail about the Server components in client/server computing.
11. Explain in detail about the System Application Architecture.
12. Explain in detail about CORBA.
13. Describe in detail about the Application Development Tools.
14. Explain in detail about the OLE/DCOM in Client framework.

M.C.A. DEGREE EXAMINATION – JUNE 2019.

Third Year

MULTIMEDIA SYSTEMS

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

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

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

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

MCA-224

MCA-24

M.C.A. DEGREE EXAMINATION – JUNE 2019.

Third Year

DISTRIBUTED COMPUTING

Time : 3 hours

Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss the advantages of distributed systems.
2. Compare stateful vs stateless server.
3. Discuss direct vs indirect communication.
4. Brief on atomic transactions.
5. Discuss physical clocks Vs logical clocks.
6. Define transaction and explain the states in transaction with example.
7. Brief on file access models.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Brief on evolution of distributed systems and distributed goals of transparency.
9. Discuss message passing communication primitives.
10. Explain Election algorithms for deadlock management.
11. Explain Concurrency management in distributed systems.
12. With neat sketch explain distributed DBMS architecture and the components.
13. Brief on Network Open System and Network file system.
14. Given a Example of ACID Properties in DBMS.

MCA – 225

MCA-25

M.C.A. DEGREE EXAMINATION – JUNE 2019.

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 java scripting.
2. Explain about standalone scripts.
3. Write about URL Monickers.
4. Discuss about IIS and how it works.
5. Explain about Migration Wizard.
6. Describe the testing process of active X document.
7. Write short note on ISAPI extension.

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 Active X Document architecture.
 11. Discuss about Hyper linking interface.
 12. Write about overview of ISAPI.
 13. Describe about designing IIS applications.
 14. Discuss about building DHTML applications.
-