PG-255 **MSC-11**

M.Sc. (CS) DEGREE EXAMINATION – JUNE 2019.

Second Year

DISTRIBUTED SYSTEM

Time : 3 hours Maximum marks : 75

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Why do we need distributed system?

2. Discuss briefly about Interconnection structures.

3. Explain the characteristics of Distributed systems.

4. What are the characteristics of Heterogenity?

5. What is a cache?

6. Discuss about database decision trees.

7. List the level of transparency.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain Distributed database in detail.

9. Explain about challenges in distributed design.

10. Explain the concept of file server in detail.

11. Explain in detail about client/server network.

12. Explain process load distribution in detail.

13. Explain the distribution transparency in detail.

14. Explain problems of heterogeneous database in detail.

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PG-256 **MSC-12**

M.Sc. (CS) DEGREE EXAMINATION – JUNE 2019.

Second Year

ADVANCED WEB PROGRAMMING

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short notes on Applets.

2. What is the difference between custom JSP tags and Beans.

3. Write the benefits of RMI.

4. Mention different types of JDBC.

5. Differentiate between AWT and Swing.

6. Explain images in Java swings.

7. Write short notes on JSP.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain the lifecycle of applet.

9. Explain how to build an application using Java Beans.

10. Explain the basics of HTML in detail.

11. Explain the JSP lifecycle in detail.

12. Write a note on Java Database Connectivity. Illustrate with an example.

13. Define Bean. Explain the Bean Property types in detail.

14. Explain in detail about Remote Method Invocation.

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PG – 257 **MSC–13**

M.Sc. DEGREE EXAMINATION – JUNE 2019.

Second Year

Computer Science

OPERATING SYSTEM

Time : 3 hours Maximum marks : 75

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write down the Characteristics of Mainframe Systems.

2. Write about the various Operations on Processes.

3. Swapping – Explore.

4. Explain the role of Paging in Memory Management.

5. What is I/O Hardware in I/O Systems? Elucidate.

6. Explain the Functions of Disk Management in simple words.

7. Describe the File System Structure.

SECTION B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Discuss the System Components in Operating System Structures.

9. List out and explain the Operating System Services in detail.

10. What is Scheduling algorithm? Explain any one Scheduling algorithm with example?

11. Describe the steps involved in the Page replacement algorithm.

12. Illustrate the Disk Scheduling with any one of its Algorithms.

13. How can the Files be accessed? Highlight the Methods in accessing it.

14. Explain the Space Allocation Methods of File.

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PG–258 **MSC–14**

M.Sc DEGREE EXAMINATION —
July, 2019.

Second Year.

Computer Science

ARTIFICIAL INTELLIGENCE

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short notes on AI agents and environments.

2. Write about Acting with Reasoning.

3. Explain about Heuristic search technique and Heuristic functions.

4. Write short note on Backtracking search for constraint satisfaction problems.

5. Write about Uninformed search strategies.

6. Differentiate forward and backward chaining.

7. Explain about any one unsupervised learning classification technique.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain in detail about Alpha Beta pruning.

9. Write about Knowledge Representation in AI.

10. Discuss about First order Predicate Logic in detail.

11. Write an elaborate note on intelligent and problem solving agents.

12. Write about Learning Decision trees in detail.

13. Describe about supervised learning classification with linear models.

14. Describe about Language models in AI.

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PG – 259 **MSC–15**

M.Sc. DEGREE EXAMINATION – JUNE, 2019.

Second Year

NETWORK SECURITY

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Define computer security and explain the three key objectives.

2. Explain about OSI Security Architecture.

3. What are the types of security attacks?

4. Write about Public-Key Encryption Structure.

5. Write about Kerberos authentication.

6. Discuss about Symmetric block encryption algorithms

7. Write about Secure Hash Functions.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain about intrusion detection.

9. Discuss about Public key Cryptography.

10. Write about

    (a) Secure Hash Functions

    (b) Message Authentication codes.

11. Discuss about IP Security architecture.

12. Write about Malicious Software.

13. Explain about Intruders.

14. Describe the types of Firewalls

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