PG–252 **MSC–11**

M.Sc. (CS) DEGREE EXAMINATION – DECEMBER, 2018.

Second Year

DISTRIBUTED SYSTEM

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short notes on e-mail server.

2. Discuss briefly about Interconnection structures.

3. Explain the characteristics of Distributed systems.

4. Write short notes on Heterogeneous distributed database.

5. Briefly explain features of distributed database.

6. Discuss about database decision trees.

7. List the level of transparency.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain Distributed database in detail.

9. Explain about issues 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-253 **MSC–12**

M.Sc. DEGREE EXAMINATION — DECEMBER 2018.

Second Year

ADVANCED WEB PROGRAMMING

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss the steps involved in JDBC connectivity.

2. What are Servlets? Explain the task involved in servlets.

3. Differentiate between AWT and Swing.

4. Explain images in Java swings.

5. Mention different types of JDBC.

6. Write short notes on Cookies.

7. Discuss about Web -server.

PART B — ($5 \times 10 = 50$ marks)

Answer any FIVE questions.

8. Explain in detail about multi tier applications.

9. Explain the lifecycle of applet.

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

11. List and explain the different types of Enterprise Beans.

12. Explain in detail about Remote Method Invocation.

13. What are the lifecycle phases of JSP?

14. What is JDBC driver? Explain the types of JDBC drivers in detail.

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PG–254 **MSC–13**

M.Sc. DEGREE EXAMINATION – DECEMBER, 2018.

Second Year

OPERATING SYSTEM

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write the features of multiprocessor operating systems.

2. Give the basics concepts of process shortly.

3. What is scheduling?

4. Explain the working of swapping in memory management.

5. Outline the file system structure.

6. Pen down the importance of I/O hardware.

7. Write short notes on design principles of any one operating system.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain in detail about mainframe systems.

9. What are the system components that are part of operating system structures?

10. Describe the operations on processes.

11. Explain any one scheduling algorithm in example.

12. What is paging? Discuss.

13. Explore disk scheduling.

14. Discuss the importance of memory management in any one operating system.

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PG–255 **MSC–14**

M.Sc. DEGREE EXAMINATION — DECEMBER 2018.

Second Year

ARTIFICIAL INTELLIGENCE

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short note on Problem solving Agent architecture.

2. Explain about Embedded and simulated agents.

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

4. Write about Uninformed search strategies.

5. Write about backward chaining.

6. Explain about any one unsupervised learning classification technique.

7. Describe about Language models in AI.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

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

9. Explain in detail about Alpha Beta Pruning.

10. Write about Knowledge Representation in AI.

11. Discuss about First order Predicate Logic in detail.

12. Write about Learning Decision trees in detail.

13. Describe about supervised learning classification with linear models.

14. Discuss about AI Planning.

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PG–256 **MSC–15**

M.Sc. DEGREE EXAMINATION – DECEMBER, 2018.

Second Year

NETWORK SECURITY

Time : 3 hours Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write an elaborate note on OSI Security Architecture.

2. Discuss about Symmetric block encryption algorithms.

3. Write about Public-Key Encryption Structure.

4. Write about Kerberos authentication.

5. Explain about Secure socket Layer.

6. Discuss the basic concepts of SNMP Protocol.

7. Explain about Intrusion detection.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Write short note on Security Attacks.

9. Explain in detail about Public key Cryptography.

10. Write about

    (a) Secure Hash Functions

    (b) Message Authentication codes.

11. Discuss about IP Security Architecture.

12. Describe about Password Management with Markov model.

13. Discuss about Distributed Denial of Service Attacks.

14. What are different types of Firewalls and explain briefly.

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