M.Sc. DEGREE EXAMINATION — JUNE, 2018.

Second Year

Computer Science

DISTRIBUTED SYSTEM

Time : 3 hours   Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Discuss about key goals of Distributed System.

2. Explain briefly about Interconnection structures.

3. Write short notes on Data flow systems.

4. Write short notes on Heterogeneous distributed database.

5. Explain the characteristics of Distributed systems.

6. Briefly explain about Email server.

7. List the level of transparency.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain Distributed database in detail.

9. Explain the following

    (a) File server

    (b) Printer server

10. Explain design strategies in distributed database.

11. Explain in detail about advantages of Distributed processing.

12. Explain process load distribution in detail

13. Explain about database decision trees in detail.

14. Explain the distribution transparency in detail.

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| **PG-253** | **MSC–12** |

M.Sc. DEGREE EXAMINATION – JUNE, 2018.

Second Year

Computer Science

ADVANCED WEB PROGRAMMING

Time : 3 hours   Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short notes on Servlets.

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 Cookies.

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 in detail about Web application 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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M.Sc. DEGREE EXAMINATION – JUNE 2018.

Second Year

Computer Science

OPERATING SYSTEM

Time : 3 hours   Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Define clustered systems.

2. Explain the operating system services.

3. Write about process scheduling in process management.

4. Illustrate the scheduling criteria.

5. 'Swapping" – Explore.

6. Outline the file access methods.

7. Give short notes on Disk structure.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Differentiate the Real time systems and Handheld systems.

9. Discuss in detail about the system calls.

10. Explain any one scheduling algorithm with example.

11. Elaborate the paging in Memory management.

12. Explain the allocation methods in file system Implementation.

13. Discuss about the Disk scheduling.

14. Pen down the Memory management in any one operating system.

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M.Sc. DEGREE EXAMINATION –
JUNE 2018.

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 note on Problem solving Agents.

2. Explain about Heuristic search technique and Heuristic functions.

3. Write short note on Unification algorithm in propositional logic.

4. Write about Uninformed search strategies.

5. Differentiate forward versus backward chaining.

6. Explain about any one supervised learning classification technique.

7. Describe Planning with State space search.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Write an elaborate note on intelligent agents.

9. Explain in detail about informed search strategies

10. Write about constraint satisfaction problem with example.

11. Discuss about Resolution in Predicate Logic.

12. Write about Support Vector machine algorithm in detail.

13. Describe about Artificial Neural Networks.

14. Discuss about partial order planning.

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PG–256	MSC–15

M.Sc. DEGREE EXAMINATION — JUNE, 2018.

Second Year

Computer Science

NETWORK SECURITY

Time : 3 hours   Maximum marks : 75

PART A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Write short note on computer security concepts.

2. Explain about OSI Security Architecture.

3. Discuss about Symmetric encryption principles.

4. What are the approaches to message authentication?

5. Describe about X 509 Authentication Service.

6. Explain about Transport Layer Security.

7. Write about Secure Hash functions.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain in detail about Public key Cryptography.

9. Write short note on :

(a) Digital Signatures.

(b) SNMP.

10. Write about the overview of IP Security.

11. Describe about Secure Electronic Transaction with PGP.

12. Discuss about Malicious Software.

13. Write about intruders.

14. Describe the types of Firewalls.

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