**TAMIL NADU OPEN UNIVERSITY**

**School of Computer Science**

**SPOT ASSIGNMENT – AY 2018-19**

**NOTE:** Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B. Referring Materials.

**Master of Computer Science**

**Second Year**

**Course Code: MSC-11**

**Course Title: DISTRIBUTED SYSTEM**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions (3 X 5 = 15 Marks)**

1. Illustrate different Types of distributed systems?

2. What is meant by loading factors?

3. Explain about Principles of Distributed Databases?

**Part- B- Long Answer Question**

**Answer the following question (1 X 10 = 10 Marks)**

**1.** Explain about different Deadlocks in Distributed Systems?

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**Master of Computer Science**

**Second Year**

**Course Code: MSC-12**

**Course Title: ADVANCED WEB PROGRAMMING**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions (3 X 5 = 15 Marks)**

1) Write about JSP fundamentals.

2) Explain about JDBC.

3) Discuss about Applet to servlet communications.

**Part- B- Long Answer Questions**

**Answer the following questions (1 X 10 = 10 Marks)**

1. Explain about meta data and transactions in details.

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**Master of Computer Science**

**Second Year**

**Course Code: MSC-13**

**Course Title: OPERATING SYSTEM**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions (3 X 5 = 15 Marks)**

1. Define a handheld system.

2. What are the use of job queues, ready queues & device queues?

3. What is meant by demand paging?

**Part- B- Long Answer Question**

**Answer the following question. (1 X 10 = 10 Marks)**

1) Explain about disk scheduling?

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**Master of Computer Science**

**Second Year**

**Course Code: MSC-14**

**Course Title: ARTIFICIAL INTELLIGENCE**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions (3 X 5 = 15 Marks)**

1. Explain about problem solving agents.

2. Discuss about optimal decisions in games.

3. What is meant by Information Extraction? Explain

**Part- B- Long Answer Question**

**Answer the following question (1 X 10 = 10 Marks)**

1. Explain about bayes rule and its applications.

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**Master of Computer Science**

**Second Year**

**Course Code: MSC-15**

**Course Title: NETWORK SECURITY**

**(Total Marks=25)**

**Part- A- Short Answer Questions**

**Answer all questions (3 X 5 = 15 Marks)**

1) Discuss about the security services and mechanism.

2) Explain the Symmetric Block Encryption Algorithms.

**3)** Describe about digital signatures.

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**Part- B- Long Answer Question**

**Answer the following question (1 X 10 = 10 Marks)**

1) Explain about e-mail security.