



TAMIL NADU OPEN UNIVERSITY
Chennai - 15
School of Computer Science

ASSIGNMENT - 1

Programme Code No : 246
Programme Name : M.Sc - Computer Science
Course Code & Name : MSC-11, **DISTRIBUTED SYSTEM**
Batch : AY 2020-2021
No. of Assignment : 2
Maximum CIA Marks : 15 (Average of Total No. of Assignments)

Assignment-1

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about different Deadlocks in Distributed Systems?
2. Explain about issues in distributed design.
3. Explain the concept of file server in detail.

Assignment-2

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain Distributed database in detail.
2. Explain about issues in distributed design.
3. Explain the concept of file server in detail

Assignment-3

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain process load distribution in detail
2. Explain the distribution transparency in detail.
3. Explain problems of heterogeneous database in detail.



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Programme Code No : 246
Programme Name : M.Sc - Computer Science
Course Code & Name : MSC-12, **ADVANCED WEB PROGRAMMING**
Batch : AY 2020-2021
No. of Assignment :3
Maximum CIA Marks : 15 (Average of Total No. of Assignments)

Assignment-1

Max= 15 marks

Answer **any two** of the questions given below in 1000 words each.

1. Explain about meta data and transactions in details.
2. Explain the lifecycle of applet.
3. Explain how to build an application using Java Beans.

Assignment-2

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain the lifecycle of applet.
2. Explain how to build an application using Java Beans.
3. List and explain the different types of Enterprise Beans.

Assignment-3

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain in detail about Remote Method Invocation.
2. What are the lifecycle phases of JSP?
3. What is JDBC driver? Explain the types of JDBC drivers in detail.



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Programme Code No : 246
Programme Name : M.Sc - Computer Science
Course Code & Name : MSC-13, **OPERATING SYSTEM**
Batch : AY 2020-2021
No. of Assignment : 3
Maximum CIA Marks : 15 (Average of Total No. of Assignments)

Assignment-1

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

- 1) Explain about disk scheduling?
- 2) Explain in detail about mainframe systems.
- 3) What are the system components that are part of operating system structures?

Assignment-2

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain in detail about mainframe systems.
2. What are the system components that are part of operating system structures?
3. Describe the operations on processes.

Assignment-3

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain any one scheduling algorithm in example.
2. Explore disk scheduling.
3. Discuss the importance of memory management in any one operating system.



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Programme Code No : 246
Programme Name : M.Sc - Computer Science
Course Code & Name : MSC-14, **ARTIFICIAL INTELLIGENCE**
Batch : AY 2020-2021
No. of Assignment : 3
Maximum CIA Marks : 15 (Average of Total No. of Assignments)

Assignment-1

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain about bayes rule and its applications.
2. Explain in detail about Alpha Beta Pruning.
3. Write about Knowledge Representation in AI.

Assignment-2

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Write an elaborate note on intelligent and problem solving agents.
2. Explain in detail about Alpha Beta Pruning.
3. Discuss about First order Predicate Logic in detail.

Assignment-3

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Write about Learning Decision trees in detail.
2. Describe about supervised learning classification with linear models.
3. Discuss about AI Planning.



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Programme Code No : 246
Programme Name : M.Sc - Computer Science
Course Code & Name : MSC-15, **NETWORK SECURITY**
Batch : AY 2020-2021
No. of Assignment : 3
Maximum CIA Marks : 15 (Average of Total No. of Assignments)

Assignment-1

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

- 1) Explain about e-mail security.
- 2) Write about
 - (a) Secure Hash Functions
 - (b) Message Authentication codes.
- 3) Discuss about IP Security Architecture.

Assignment-2

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Explain in detail about Public key Cryptography.
2. Write about
 - (a) Secure Hash Functions
 - (b) Message Authentication codes.
3. Discuss about IP Security Architecture.

Assignment-3

Max= 15 marks

Answer **any one** of the questions given below in 1000 words each.

1. Describe about Password Management with Markov model.
2. Discuss about Distributed Denial of Service Attacks.
3. What are different types of Firewalls and explain briefly.