



**Tamil Nadu Open University**  
**School of Computer Science**  
**Chennai – 15**  
**HOME / SPOT ASSIGNMENT**

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Programme Code No : 271  
Programme Name : Master of Computer Applications  
Course Code & Name : MCA – 21 & Relational Database Management Systems  
Batch : AY 2019-20 (3<sup>rd</sup> Year)  
No.of Assignments : One Assignment for Each 2 Credits  
Maximum CIA marks : 25 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Describe Boyce-codd Normal form with example.
2. Explain the advantages of database management system.
3. Explain the privileges of ORACLE.

**ASSIGNMENT - 2**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain the different classifications of Data Models.
2. Illustrate diagrammatically the components of DBMS.
3. Define client and server. Explain the client/server architecture in detail.



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Programme Code No : 271  
Programme Name : Master of Computer Applications  
Course Code & Name : MCA – 22 & Client Server Technology  
Batch : AY 2019-20 (3<sup>rd</sup> Year)  
No.of Assignment : One Assignment for Each 2 Credits Maximum  
CIA marks : 25 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. What is middleware? Discuss in detail.
2. What are the basic characteristics needed for developing the client/server development tools?
3. What is server side component? Describe the facilities provided by server side component.

Max : 25 marks

**ASSIGNMENT - 2**

**Answer any one of the question not exceeding 1000 words**

1. What is network operating system? List out the functions with example.
2. What is Asynchronous transfer mode? Discuss.
3. Discuss the major hardware components of client/server environment.



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Programme Code No : 271  
Programme Name : Master of Computer Applications  
Course Code & Name : MCA – 23 & Multimedia  
Batch : AY 2019-20 (3<sup>rd</sup> Year)  
No. of Assignments : One Assignment for Each 2 Credits  
Maximum CIA marks : 25 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. What is multimedia? Discuss the major components of multimedia.
2. Explain Icon-Based authoring tools.
3. Discuss about various stages of a multimedia project.

**ASSIGNMENT – 2**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain card-and page-based authoring tools.
2. What is multimedia? Discuss elements of multimedia.
3. Discuss about simple compression technique.



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Programme Code No : 271  
Programme Name : Master of Computer Applications  
Course Code & Name : MCA – 24 & Distributed Computing  
Batch : AY 2019-20 (3<sup>rd</sup> Year)  
No.of Assignments : One Assignment for Each 2 Credits  
Maximum CIA marks : 25 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain any one network operating system features.
2. Discuss about process migration in distributed environment.
3. Explain RPC and thread.

**ASSIGNMENT – 2**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Why fragmentation of a data in a distributed systems? Discuss.
2. Discuss DDBMS advantages and disadvantages.
3. Compare NOS and distribution operating system.



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Programme Code No : 271  
Programme Name : Master of Computer Applications  
Course Code & Name : MCA – 25 & Network Programming  
Batch : AY 2019-20 (3<sup>rd</sup> Year)  
No. of Assignments : One Assignment for Each 2 Credits  
Maximum CIA marks : 25 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max : 25 marks

**Answer any one of the question not exceeding 1000 words**

1. Explain OSI Reference model of Network architecture with Block diagram.
2. Discuss about Satellite Networks
3. Discuss about Broadcast Routing and Hierarchical Routing.

Max : 25 marks

**ASSIGNMENT - 2**

**Answer any one of the question not exceeding 1000 words**

1. Describe the function of different layers in the OSI reference model.
2. Explain the MAC layer for medium access.
3. Explain multicast routing and link state routing algorithms.