

Paper Code: MCA-E12

Roll No.

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MCA
(SEM IV) EVEN SEMESTER EXAMINATION, 2015-16
CLIENT SERVER COMPUTING

[Time: 3 hrs.]**[Max. Marks: 100]****Note:** - Attempt all questions. All questions carry equal marks.

1. Attempt any four parts of the following:-

[5x4=20]

- (a) What do you understand by client server architecture? Explain one tier, two tier and three tier architecture in detail.
- (b) Differentiate between transaction server and data server with example.
- (c) Discuss about mainframe centric computing.
- (d) What are the different ways to improve the performance of client server computing?
- (e) What is the difference between database schema and database state?
- (f) Differentiate between centralized and distributed computing.

2. Attempt any four parts of the following:-

[5x4=20]

- (a) Explain the Dynamic Data Exchange (DDE) and object linking in brief with the help of example for each.
- (b) Discuss about the functions and features of network operating system (NOS).
- (c) Explain with the help of block diagram and example, the Common Object Request Broker Architecture (CORBA).
- (d) What is remote procedure call (RPC)? Explain the work procedure of RPC with example.
- (e) Describe the different functions of server in detail.
- (f) Discuss Distributed Computing Environment (DCE) with suitable diagram.

3. Attempt any two parts of the following:-

[10x2=20]

- (a) Explain token ring. How does token ring LAN operate? What are the advantages of FDDI over basic token ring?
- (b) Describe Inter Process Communication (IPC) service. What are the blocking and non-blocking types of IPC? Discuss their relative advantages and disadvantages.
- (c) What is client server systems development methodology? Explain different phases of System Interaction Life Cycle (SILC) with suitable diagram.

4. Attempt any two parts of the following:-

[10x2=20]

- (a) In client server architecture, what do you mean by availability, reliability, serviceability and security? Explain with example.
- (b) What are the various network management application tools? Also explain the concept of network monitoring.
- (c) Write short notes on the following:
 - (i) WORM
 - (ii) RAID
 - (iii) Mirrored Disk
 - (iv) Network Interface Card

5. Attempt any two parts of the following:-

[10x2=20]

- (a) Discuss about trends in client server computing.
- (b) What do you understand by end-user training and what are the main issues involved in it? Differentiate it with database administrator training.
- (c) Write short notes on following:
 - (i) Point-of-Service
 - (ii) Geographical Information System (GIS).