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MCA
(SEM IV) THEORY EXAMINATION 2017-18
CLIENT SERVER COMPUTING

Time: 3 Hours**Total Marks: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 7 = 14**

- a. Draw the three tier architecture of DBMS.
- b. Differentiate between stateful and stateless servers.
- c. What is dynamic data exchange?
- d. What do you understand by DDE?
- e. Describe these protocols: TELNET, FTP, SMTP.
- f. Write about tape optical disk.
- g. Explain CGI in brief.

SECTION B**2. Attempt any three of the following: 7 x 3 = 21**

- a. Discuss the role of client in client/server computing and also explain the various services provided by client.
- b. List and explain the sequence of events during remote procedure call?
- c. Write short notes on the following:
 - 1) Ethernet
 - 2) UNIX workstation.
- d. What are different hardware and software for end-users? Explain them in detail.
- e. What are the role of training in successful deployment of Client/ Server Computing systems? Explain various options to accomplish the training of staff.

SECTION C**3. Attempt any one part of the following: 7 x 1 = 7**

- (a) Draw the block diagram of client/server architecture and explain the advantages of client/server computing with the help of suitable example.
- (b) Explain about the various client server system development Tools.

4. Attempt any one part of the following: 7 x 1 = 7

- (a) What is Network operating system. Discuss its advantages.
- (b) Describe Object Linking and Embedding (OLE) with an example.

5. Attempt any one part of the following: 7 x 1 = 7

- (a) Briefly describe PC level processing unit in client/server computing.
- (b) What are various hardware requirements in a typical client/server under network environment?

6. Attempt any *one* part of the following:

7 x 1 = 7

- (a) Write and describe various types of data storage system. Give merits and Demerits of each.
- (b) Briefly describe the following terms in Client/Server computing environment:
 - 1) Protection Devices
 - 2) RAID

7. Attempt any *one* part of the following:

7 x 1 = 7

- (a) List and explain the training advantages of GUI application.
- (b) What are different client server computing enabling technologies? Explain about Expert System.