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

**Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt *all* questions in brief. 2 x 10 = 20**

- a. Describe the characteristics of client-server computing model.
- b. What do you understand by OLE?
- c. What is NOS?
- d. Explain CGI in brief
- e. Write various types of Client/Server development tool.
- f. Briefly discuss working of FDDI.
- g. How does Thin Client/Server Work?
- h. Define Dynamic Data Exchange (DDE).
- i. What are the functions of SMTP.
- j. Briefly discuss Token Ring Protocol.

**SECTION B**

**2. Attempt any *three* of the following: 10 x 3 = 30**

- a. Explain the architecture of centralized multi-user system.
- b. Describe RPC model. Write the advantages of RPC model over ordinary procedure call model.
- c. How does a Token Ring LAN operate? What are the advantages of FDDI over a basic Token Ring.
- d. What is RAID disk. Also explain the important goals of RAID technology.
- e. What do you understand by End user training and what are the main issues involved in it. Differentiate it with database administer training.

**SECTION C**

**3. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) What is Mainframe Centric Client/Server Computing? What do you mean by reliability of client server model.
- (b) What are the minimum client and server components required for a client server computing environment?

**4. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Explain the Common Object Request Broker Architecture. Explain the CORBA event, notification and security services.
- (b) What do you understand by network management and remote system management? Differentiate between them.

- 5. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Describe the working of X-terminals and UNIX workstation.
  - (b) Discuss the client server systems development methodology in detail.
- 6. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Write a short note on software distribution in client server environment.
  - (b) Describe the following :
    - 1) Optical Disk
    - 2) NICs
- 7. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Discuss the various examples of GUI applications in detail.
  - (b) Explain in detail the categories of Server.