

Printed Pages : 2

MCAE12

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 1451**

Roll No.

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**M.C.A.**

**(SEMESTER-IV) THEORY EXAMINATION, 2011-12**

**CLIENT SERVER COMPUTING**

**Time : 3 Hours ]**

**[ Total Marks : 100**

**Note :** Answer **all** the Sections.

**Section – A**

1. Attempt **all** the parts. **10 × 2 = 20**
- (a) Draw the block diagram of Client/Server Computing.
  - (b) What do you understand by OLE ?
  - (c) What is Network Operating System ?
  - (d) What is the basic difference between client server and peer to peer computing ?
  - (e) Explain CGI in brief.
  - (f) Write the important types of Client/Server development tool.
  - (g) Are standard application protocols like TELNET, FTP, SMTP and NFS connectionless or connection oriented ?
  - (h) What are the various ways to reduce network traffic of Client/Server computing ?
  - (i) What is the function of SMTP ? Also explain in brief what is the purpose of POP.
  - (j) Write in short the roles of network administrator.

**Section – B**

2. Attempt any **three** parts : **3 × 10 = 30**
- (a) Write short notes on the following :
    - (i) . Single System Image
    - (ii) FDDI
  - (b) Explain the Common Object Request Broker Architecture. Explain the CORBA event, notification and security services.
  - (c) What is RPC ? Explain the work procedure of RPC with an example.

- (d) Write short note on RAID disk. Also explain the important goals of RAID technology.
- (e) Differentiate between network management and remote system management. What are the various network management application tools ?

### Section – C

Attempt all **five** parts

**5 × 10 = 50**

3. What is WAN ? Describe in brief the various WAN technologies in Client/Server computing.

**OR**

- (a) What is network acquisition ? Explain the role of X-terminals in a Client/Server environment.
- (b) What is the functional difference between a server operating system and a network operating system ? Explain in detail with a diagram.

4. Briefly describe the role of following devices in Client/Server computing environment :

- (a) Power Protection Devices
- (b) Surge Protectors

**OR**

What is Mainframe Centric Client/Server computing ? What do you mean by reliability of client server model ?

5. What are the role of training in successful deployment of Client/Server computing systems ? Explain various options to accomplish the training of staff.
6. How does a token ring LAN operate ? What are the advantages of FDDI over a basic token ring ?
7. Explain the following in detail :
- (a) System administrator in Client/Server application.
  - (b) Performance evaluation of Client/Server application.
  - (c) Reliability and serviceability of Client/Server architecture.
  - (d) PC level processing unit in Client/Server computing.

**OR**

Explain the role of client and server in Client/Server computing and also explain the various services provided by client.