M C A
(SEM. IV) EXAMINATION, 2006-07
CLIENT / SERVER COMPUTING

Time : 3 Hours] [Total Marks : 100

1. Attempt any four parts out of the following : 5
   (a) Why is the client program finite and the server program infinite? 5
   (b) In the client-server model, what is the role of the client program? What is the role of the server program? 5
   (c) What is the relationship between CGI and dynamic documents? 5
   (d) How the client/server model provides opportunity to achieve true open system computing? 5
   (e) Are standard application protocols like TELNET, FTP, SMTP and NFS connectionless or connection oriented? 5
   (f) Give a brief description of the advantages of client/server model. 5

2. Attempt any four parts of the following 5
   (a) What is redirection in NOS? How does it work? 5

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(b) What is object linking and Embedding (OLE)? Discuss its advantages in client-server model.

(c) Explain the architecture of Distributed Computing environment.

(d) List the features that must be included in the database engine to make it suitable for client server applications.

(e) Give a brief description of the functions provided by server in a Network operating system environment.

(f) What is CORBA?

3 Attempt any two out of the following:
   (a) Explain the services provided by interprocess communication.
   (b) What is Network Basic input output system? Describe the various services provided by Net BIOS commands.
   (c) What is Token ring? In a 16-Mbps Token ring network, the length of the token is three bytes. How long does it take for a station to produce a token?

4 Attempt any two parts out of the following:
   (a) Write short comments on the following:
       (i) WORM
       (ii) Erasable optical
       (iii) Network interface cards
       (iv) CDDI.
(b) How the security can be implemented in client server applications explain?
(c) Explain the various LAN and network management issues in the context of client server applications.

5 Attempt two parts out of the following:
(a) Explain the benefits that can be obtained by organizations using expert systems technology.
(b) What is EDI? Discuss its advantages.
(c) Discuss the key issues in the training of systems administration personnel.