M. C. A.

(SEM. IV) EXAMINATION, 2006-07

CLIENT SERVER COMPUTING

Time : 3 Hours] [Total Marks : 100

Note : Attempt all questions. All questions carry equal marks.

1 Attempt any four parts : 5×4=20

(a) Differentiate between centralized and distributed computing.

(b) What is the difference between database schema and database state?

(c) Discuss the advantages of a three-tier client server architecture over two-tier client server architecture.

(d) Discuss the role of object technology in client/server development.

(e) Is it always beneficial to go for client/server computing? Yes or No? Explain. Give certain applications where it is not recommended to use C/S computing.

(f) Discuss some of ways to improve performance in client/server developed applications.

V-1461] 1 [Contd...
2 Attempt any **four** parts : \(5 \times 4 = 20\)
(a) What is meant by object linking and embedding (OLE)? Explain.
(b) Discuss the role of server in detail.
(c) Compare object oriented and relational database management system features.
(d) Discuss the distributed computing environment (DCE) architecture in detail.
(e) Discuss the OSI reference model in detail.
(f) Explain Asynchronous Transfer Mode (ATM).

3 Attempt any **two** parts : \(10 \times 2 = 20\)
(a) Discuss the client/server systems development methodology in detail.
(b) Write short notes on the following:
   (i) X-terminals
   (ii) UNIX work station.
(c) What is meant by WAN? Discuss the various WAN technologies in detail.

4 Attempt any **two** parts : \(10 \times 2 = 20\)
(a) Discuss the various LAN and Management issues in detail.
(b) Describe the following:
   (i) RAID-DISK
   (ii) Optical disk
   (iii) NICs.
(c) Write short notes on the following:
   (i) Software Distribution in C/S Environment
   (ii) MTTR and MTBF.

V-1461] 2 [Contd...
5 Attempt any two parts: \[10 \times 2 = 20\]

(a) Discuss the various training advantages of QUI applications in detail.

(b) Write short notes on the following:
   (i) Expert systems
   (ii) POS.

(c) Describe the following:
   (i) Text-management process.
   (ii) Emergency Public safety.