

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

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Odd Semester Examination-2016

MCA (SEMESTER - V)

CLIENT SERVER COMPUTING

[Time : 3 Hours]

[Maximum Marks : 100]

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

1. Attempt any four parts of following:

[5x4=20]

- (a) What are the advantages of 3-tier client server architecture over 2-tier client server architecture?
- (b) Compare centralized and distributed computing.
- (c) What is the difference between database schema and database state? Explain.
- (d) What are different client/server development tools?
- (e) Discuss some ways to improve performance in client/server developed applications.

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- (f) Is it always beneficial to go for client/server computing? Yes or no, explain. Give certain applications where it is not recommended to us client/server computing.

2. Attempt **any four** parts of following: [5x4=20]

- (a) Briefly discuss about the components of client/server applications.
- (b) Explain the services available for client/server application.
- (c) Write short notes on Dynamic Data Exchange (DDE) and Object Linking and Embedding (OLE).
- (d) What is COBRA? Explain.
- (e) What are the different servers available in the client/server architecture?
- (f) What are different server operating systems available now a days? Explain each in brief.

3. Attempt **any four** parts of following: [5x4=20]

- (a) What comes under WAN Technologies? Explain.

- (b) Write short notes on – Token Ring, Ethernet, FDDI, CDDI.
 - (c) What hardware needed for client server?
 - (d) Write short notes on – UNIX workstations, x-terminals, and Macintosh.
 - (e) Draw and explain a diagram that shows a client server interaction in the Internet.
 - (f) What are different communication technologies?
4. Attempt any two parts of following: [10x2=20]
- (a) Write short notes on –
 - (i) Magnetic disk
 - (ii) Magnetic tape
 - (iii) Optical disk
 - (iv) Mirrored disk
 - (v) RAID
 - (b) Discuss the role of system administrator? Also discuss- Availability, Reliability, Serviciability.

(c) Write short notes on :

(i) Network management

(ii) LAN and Network management issues

5. Attempt **any two** parts of following: [10x2=20]

(a) What is the role of training in client /server system development? Discuss system administrator training and database administrator training.

(b) Discuss the GUI part of client /server application. Also discuss how an application is deployed over server.

(c) Write short notes on future of client server computing enabling technologies.

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