

Printed Pages—3

MCA404(4)

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

PAPER ID : 1478

Roll No.

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M.C.A.

(SEM. IV) THEORY EXAMINATION 2010-11

CLIENT SERVER COMPUTING

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.

(SEM. IV) THEORY EXAMINATION 2010-11

CLIENT SERVER COMPUTING

Time : 3 Hours

Total Marks : 100

- Note :—**
- (1) Attempt all questions.
 - (2) All questions carry equal marks.
 - (3) Clearly explain the assumptions if any.

1. Attempt any two parts of the following :— (10×2=20)

- (a) Describe important characteristics of client-server computing model.
- (b)
 - (i) Describe role of client program in client-server computing model.
 - (ii) Explain architecture of centralized multi-user system.

- (c) Write and describe important types of client server development tool.
2. Attempt any **two** parts of the following :— (10×2=20)
- (a) Describe RPC model. Write the advantages of RPC model over ordinary procedure call model.
- (b) Describe relative merits and demerits of networks operating system over the centralized operating system. Explain the difficulties in design of network operating system.
- (c) Describe the common object request broker architecture ?
Explain the CORBA event, notification and security services.
3. Attempt any **two** parts of the following :— (10×2=20)
- (a) Describe Inter process communication services. What are the blocking and non-blocking types of IPC ? Discuss their relative advantages and disadvantages.
- (b) Write and briefly explain basic hardware and software requirement in client-server system development.
- (c) Explain the following in brief :
- (i) Token ring protocol
- (ii) FDDI.
4. Attempt any **two** parts of the following :— (10×2=20)
- (a) What are important goals RAID technology ? How these can be achieved ? Explain.

- (b) Write and describe popular types of data storage system. Write the merits and demerits of each.
 - (c) What do you understand by network management and remote system management ? Explain and differentiate both of them.
5. Attempt any **two** parts of the following :— (10×2=20)
- (a) Write and describe main issues involved in the training of system administration personnel and end-user.
 - (b) List the services provided by client-server system. Explain the possible development of client-server computing system in future.
 - (c) Write short notes on OLE.