

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

PAPER ID : 1478

Roll No.

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MCA

FOURTH SEMESTER EXAMINATION, 2005-2006

CLIENT SERVER COMPUTING

Time : 3 Hours

Total Marks : 100

- Note :**
- Attempt **ALL** questions.
 - All questions carry equal marks.
 - In case of numerical problems assume data wherever not provided.
 - Be precise in your answer.

1. Attempt **any four** parts of the following : (5x4=20)
- What do you understand by client/server computing ? What are the driving forces behind the client server computing ?
 - How your client server computing system looks like a single image system ? Explain.
 - Define main frame-centric client server computing and down sizing.
 - What do you understand by the client server architecture ? Explain one tier, two tier and three tier architecture in brief.
 - What are the various ways to improve the performance of client server computing ?
 - What are the various client server development tools ?

2. Attempt *any four* parts of the following : (5x4=20)

- (a) Explain the common object request Broker Architecture.
- (b) Explain the term Dynamic Data Exchange (DDE) and object linking in brief. Also give one example each.
- (c) What do you understand by the term Network Operating System (NOS) ? Also explain the role of network administrator.
- (d) Explain the term fax services and print services in details.
- (e) One of the application of client server is windows services. Explain these services.
- (f) Most of the RPC systems support call by value semantics for parameter passing. Is it true ? Explain.

3. Attempt *any two* parts of the following : (10x2=20)

- (a) Explain the term connectivity and communication interface technology in details.
- (b) What is server system development methodology ? Explain the different phases of system integration life cycle.
- (c) Define and explain the following :
 - (i) Token ring
 - (ii) FDDI
 - (iii) NFS
 - (iv) IPC

4. Attempt *any two* parts of the following : (10x2=20)
- (a) (i) Discuss the various security threats in a client server environment.
 - (ii) What do you mean by reliability of client server model ?
 - (b) What are the various network management application tools ? Also explain the concept of remote monitoring.
 - (c) Write short notes on the following :
 - (i) Worm
 - (ii) RAID
 - (iii) X-terminals
5. Attempt *any two* parts of the following : (10x2=20)
- (a) Describe the key elements of database administrator training and end-user training.
 - (b) What are the different enabling technologies ? Explain expert system, Imaging and electronic document management.
 - (c) What are the major issues need to be addressed related to a client server model in order to support mobile computing environment ?

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