

**Q5.** Attempt any *two* questions from the following: 10x2=20

- (a) Discuss the various training advantages of GUI 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
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Printed Pages : 4



NMCA012/MCAE-12

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

**PAPER ID : 214430**

Roll No.

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**MCA**  
**(SEM. IV) THEORY EXAM. 2014-15**  
**CLIENT SERVER COMPUTING**

Time : 3 Hours]

[Total Marks : 100

**Note :** Attempt the questions as indicated.

**Q1.** Attempt any *four* questions from the following: 5x4=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 the ways to improve performance in client/server developed applications.

**Q2.** Attempt any *four* questions from the following : 5x4=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 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).

**Q3.** Attempt any *two* questions from the following : 10x2=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.

**Q4.** Attempt any *two* questions from the following : 10x2=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