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

Paper ID : 214457   Roll No.

M.C.A.

Theory Examination (Semester-IV) 2015-16

CLIENT SERVER COMPUTING

Time : 3 Hours   *Max. Marks : 100*

Note: Attempt questions from all Sections as per directions.

Section-A

Attempt all parts of this section. Answer in brief. $(2 \times 10 = 20)$

1. (a) What is meant by client server computing?

    (b) What is file server and database server?

    (c) List out the 4 situations used for building blocks arrangement

    (d) Differentiate between two tier and three tier client/ server architectures.

(e) List out the 4 situations used for building blocks arrangement

(f) What is meant by real client server? Explain the types of real client server.

(g) What is meant by intergelatic client server? Explain.

(h) Differentiate between the Asymmetric multiprocessing and Symmetric multi processing.

(i) Explain in detail about extended and base services of server programs

(j) List out the types of transparency in NOS Middleware.

Section-B

2. **Attempt any five questions from this section.**

$(10 \times 5 = 50)$

(a) Differentiate between Embedded sql and call level interface.

(b) List out the solution for single vendered middleware

(c) How to managing heterogeneous resources in TP lite vs. TP heavy?

(d) What does TP HEAVY mean? List out the functions includes in TP heavy.

(e) Define load balancing in TP monitor. List out the types of TP monitor client/server interaction types.

(f) What is meant by NOS extension and NOS middleware?

(g) Differentiate between process oriented and adhoc workflow. List out the 3rs in work flow model.

(h) Differentiate between baby stepping flat transaction and the distributed flat transaction

Section-C

Attempt any two questions from this section.   (15×2 = 30)

3. Define Remote Procedure Call (RPC). Explain distributed computing architecture. Define UDP with its operational characteristics and application.

4. Define middleware. Make distinction between ODBC (Open Database Connectivity) and JDBC (java Database Connectivity).Briefly explain about 3 tier client server web style?

5. How index fine tune performance of database server? Explain DSS (Decision Support System) and EIS (Executive Information System) in brief.