IMCA – 34

III Semester Int. M.C.A. Examination, February/March 2010
CLIENT SERVER ARCHITECTURE

Time: 3 Hours Max. Marks: 100

Instructions : *1) Answer **all** questions in Part – **A**, **5** out of 8 questions in Part – **B** and **4** out of 6 questions in Part – **C**.*
*2) PART – **A**: Questions from **1** to **8** carry **1** mark **each** and **9** to **14** carry **2** marks **each**.*
*3) PART – **B**: **Each** question carries **8** marks.*
*4) PART – **C**: **Each** question carries **10** marks.*

PART – A

1. What are thin client and servers ?
2. What is architecture ?
3. Describe data interoperability .
4. What do you mean by data sharing ?
5. Write a note on data interchangeability.
6. Mention the types of servers.
7. Write the expansion of CORBA.
8. Write the expansion of DCOM.
9. Define and describe maintainability.
10. What is integrity? Give examples.
11. What is the difference between blackbox-, whitebox-, and gray-box testing ?
12. What is the difference between validation and verification ?
13. Describe a testing life cycle.
14. How can we measure requirements ?

P.T.O.

PART – B

1. Present the characteristics of the client and the server.
2. Discuss any two types of servers in detail.
3. Explain the ORB architecture with the help of a neat diagram.
4. Discuss the fat server model and fat client model in brief.
5. With the help of an example explain the 3-tier architecture.
6. Explain what you mean by stored procedure with respect to SQL.
7. Explain the concept of Remote procedure call.
8. Discuss the services offered by client side.

PART – C

1. Explain the concept of Dynamic data exchange with the help of an example.
2. Discuss in detail any 5 server side services.
3. Discuss LAN, WAN and MAN.
4. Explain the different layers of OSI reference model.
5. Briefly write and explain the TCP/IP architecture and protocols respectively.
6. What is a topology? Explain Bus, Ring and Star topology.

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