Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 65038

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Elective

Information Technology

XIT 002 — CLIENT SERVER COMPUTING

(Common to 5 Year M.Sc. Software Engineering)

(Regulation 2003)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is the role of middleware in client server system?

2.   List any two issues in client server model.

3.   Differentiate OLTP and OLAP.

4.   Define triggers with an example.

5.   What is the use of ActiveX component?

6.   What is the use of ODBC driver?

7.   Define Class wizard.

8.   What are the diagnostic tools available in VC++?

9.   List out Toolbar states.

10. Define OLE handler.

PART B — (5 × 16 = 80 marks)

11. (a) (i) What are the characteristics of client server model? (6)

(ii) Discuss the role of object technology in C/S development. (10)

Or

(b) (i) Is it always beneficial to go for C/S computing? Yes or no? Give certain applications where it is not recommended to use C/S computing. Discuss some ways to improve performance in C/S developed applications. (8)

(ii) Briefly explain RPC in detail. (8)

12. (a) (i) Define transaction. Discuss briefly the ACID properties that make transactions desirable in C/S computing. (6)

(ii) What is a TP monitor? What are its functions? Discuss in detail.(10)

Or

(b) (i) Discuss in detail multithreaded architecture and hybrid architecture. (8)

(ii) Explain with an example chained and nested transaction in detail. (8)

13. (a) (i) What is meant by object linking and embedding(OLE)? Explain. (8)

(ii) Briefly explain the functionalities drivers and driver manager. (8)

Or

(b) Explain the need for database connectivity. Briefly explain the functions of ODBC components and architecture. (4+12)

14. (a) (i) What is DLL? Explain its types and advantages in detail. Write a program to create a user defined DLL. (8)

(ii) Explain how reading and writing is done in a SDI document. (8)

Or

(b) What is meant by Modal & Modeless controls? Explain Modal dialog controls with a sample programs.

2 65038

15. (a) (i) Discuss the functionalities of OLE server and OLE client. (8)

    (ii) Explain dynamic data exchange format in detail. (8)

    Or

    (b) Explain how ODBC database connectivity is done in VC++ for the bank database. Use account and customer to create credit, withdraw, Balance enquiry and password change menus for the bank database.

———————