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19/12/15 FN

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Question Paper Code : 95333

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Elective

Software Engineering

ESE 512 — CLIENT SERVER COMPUTING

(Regulations 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is right sizing? List out any four benefits of it.
2. What is middleware? State its importance.
3. What is a trigger? Give the general format of a CREATE trigger.
4. Distinguish between chained and nested transactions.
5. What is ODBC?
6. List any four special features available only in ODBC 3.0.
7. What is the function of graphics device interface?
8. State the advantages of dynamic link libraries available in windows.
9. What is MDI? Mention the limitations of MDI.
10. What is OLE? What is its use?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the building blocks of client / server. (8)
- (ii) Explain the working method of remote procedure calls. Enumerate their advantages. (8)

Or

- (b) Explain the functions of the following servers
- (i) Database server (4)
- (ii) Transaction server (4)
- (iii) Groupware server (4)
- (iv) Web server. (4)

12. (a) (i) Explain the following architectures :
- (1) Multithread architecture. (8)
- (2) Hybrid architecture. (8)
- (ii) Briefly discuss about transaction processing monitors. (8)

Or

- (b) (i) Draw the block diagram for client / server transaction processing model. Explain the functions of each component in the model. (8)
- (ii) Briefly explain the transaction management standards. (8)

13. (a) (i) Draw ODBC architecture and explain the functions of each component in the architecture. (8)
- (ii) Explain the functions of ODBC driver manager. (8)

Or

- (b) (i) What are the types of ODBC driver? Explain the functions of each type of the driver. (8)
- (ii) Enumerate the types of data source and explain each one of them. (8)

14. (a) Describe the visual C++ application build process with a suitable block diagram. (16)

Or

- (b) (i) Write a VC++ program to draw a clock shape. (8)
- (ii) Write a VC++ program with menu to calculate simple interest and compound interest. Assume suitable data on your own. (8)

15. (a) Illustrate the procedure and necessary code to create a MDI in VC++ for a banking application. Assume suitable conditions on your own and present the same. (16)

Or

- (b) Illustrate the procedure and necessary code in VC++ to connect a student database with student data entry program. The program should have the following options.

- (i) Add student record.
- (ii) Delete student record.
- (iii) Modify student record.
- (iv) Exit.

(16)