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Question Paper Code : 65128

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

Second Semester

Software Engineering

ESE 024 – COBOL AND DATA PROCESSING

(Regulation 2010)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What is meant by figurative constant?

2.   What are edited picture clauses?

3.   Write the syntax of ALTER statement.

4.   What is the purpose of REDEFINES clause?

5.   Write the complete syntax of MERGE verb.

6.   How a relative file differs from an indexed sequential file?

7.   Why is file organization necessary? When is direct file organization usually used?

8.   What are the advantages of modular programming?

9.   Distinguish between Master and Transaction files.

10. What is meant by screen handling?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the structure of a COBOL program with an example. (8)

    (ii) With examples, discuss about the data movement statements in COBOL. (8)

Or

    (b) Explain the arithmetic statements in COBOL with examples. (16)

12. (a) (i) Explain the different forms of PERFORM statement with suitable example. (8)

    (ii) Explain how subroutines defined and used in COBOL with an example. (8)

Or

    (b) (i) Explain the usage of OCCURS clause with a sample COBOL program. (8)

    (ii) What is SEARCH statement? Explain with suitable example how it can be used to search an element in a two-dimensional table. (8)

13. (a) (i) Describe the file control entries for sequential and indexed sequential files. (8)

    (ii) Write a COBOL program to create a sequential file for storing the address of Customers in a business. (8)

Or

    (b) (i) Explain about the FD entry of a relative file. (6)

    (ii) With an example, explain the use of SORT statement with input/output procedure. (10)

14. (a) (i) Explain data processing cycle. (8)

    (ii) Write notes on 'coding style' and 'testing'. (8)

Or

    (b) (i) List the types of input and output devices. Explain any one input and output device. (10)

    (ii) What is meant by top-down design? Explain. (6)

15. (a) Using Master and Transaction files, write a COBOL program to implement Bank transactions. Make assumptions wherever necessary.

(16)

Or

(b) Explain with a program how a merge operation should be programmed if the files to be merged are not already sorted. (16)

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