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CS-03

02842

PGDCA/MCA (I Yr)/BCA

Term-End Examination

June, 2010

CS-03 : FILE STRUCTURE AND PROGRAMMING IN COBOL

Time : 2 hours *Maximum Marks : 60*

Note : *Question No.* ***1*** *is* ***compulsory.*** *Answer* ***any three*** *questions from the rest.*

1. (a) Write a COBOL program to implement a billing application for a retail medical-shop. Assume that the price of each medicine is available in a master file that has relative file organisation. **10**

Note : Make suitable assumptions, if needed and list them.

(b) Explain the use and syntax of each of the following COBOL statements/verbs/clauses with an example for each : **10**

(i) PIC clause with code character A and PIC clause with code character Z.

(ii) INSPECT . . . . TALLYING

(iii) GOTO

(iv) JUSTIFIED

(c) Write the DATA DIVISION and PROCEDURE DIVISION of a COBOL program for sorting an array of 10 elements using Bubble sort. **10**

2. (a) What is the purpose of level 77 and level 88 in COBOL ? Give two examples of each to illustrate their use. **5**

(b) What is the role of SEARCH statement in COBOL ? How does this statement operate on data ? Explain it with the help of a suitable example. **5**

3. (a) What is the purpose of MERGE statement ? Explain with the help of an example. **5**

(b) Differentiate MOVE and Group MOVE and illustrate both with the help of an example. **5**

4. What is an indexed sequential file organisation ? Explain the modes in which the indexed files can be accessed. Discuss the Procedure Division statements for indexed sequential files, with the help of an illustration. **10**

5. The payroll record of some XYZ Company have the following structure : **10**

Employee Number : 4 digits

Employee name : 25 characters

Employee pay : 6 digits

Write a suitable Data Division of a COBOL program for this company. The company had decided to increase the pay of its employees as per the following rule :

Pay < 8000 15% increase in Pay

Pay $\geq$ 8000 but $\leq$ 15,000 10% increase in Pay

Pay > 15,000 5% increase in Pay

Write the Procedure Division to implement this change for the company.