USN | | | | | | | | | | **10MCA21**

Second Semester MCA Degree Examination, June/July 2013
Business Data Processing with COBOL

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1   a. Explain the various divisions of COBOL with their sections in order. Also indicate their positions on the COBOL coding sheet. **(10 Marks)**
    b. Explain the following :
       i) Level numbers
       ii) Data description entries
       iii) COBOL 74 vs COBOL 85. **(10 Marks)**

2   a. Explain any ten different editing characters and also explain their usage. **(10 Marks)**
    b. With general forms explain the different arithmetic verbs, with examples. **(10 Marks)**

3   a. List the different types of PERFORM statements with their syntax. Explain any four of them, with example. **(10 Marks)**
    b. Explain any five different types of conditions. **(10 Marks)**

4   a. Explain the different types of USAGE clauses. Discuss its influence on storage of data. **(08 Marks)**
    b. Differentiate between REDEFINES and RENAMES clauses. **(06 Marks)**
    c. Discuss the following verbs with syntax and example.
       i) SET
       ii) ON SIZE ERROR
       iii) EVALUATE. **(06 Marks)**

5   a. Explain the difference between sequential and indexed sequential files. Explain how they are created and manipulated in COBOL. **(10 Marks)**
    b. Write a COBOL program to sort N numbers using bubble sort technique. **(10 Marks)**

6   a. List out the various statements for sequential file processing and also explain them with their syntaxes. **(08 Marks)**
    b. Write a COBOL program to read a sequential file which reads an input file and prints the output as described below :
    Input file :

1 – 4	Account – Number	Numeric
5 – 14	Customer – name	Character
15 – 16	Account – Type	Character
17 - 23	Amount	Numeric with 2 decimal places

    Output file :

1 – 3	Blank
4 – 7	Account – Number
8 – 10	Blank
11 – 20	Customer – name
21 – 23	Blank
24 – 25	Account – Type
26 – 28	Blank
29 - 35	Amount

    And also sort records in the file using SORT verb. **(12 Marks)**

7   a.   Explain how reports are generated in COBOL using report generator facility.   (10 Marks)
     b.   Given that the record format of an employee sequential file will be as shown below :
              Emp – Name (20)
              Emp – Dsg (10)
              Basic (5)
              DA (56% of basic)
              HRA (20% of basic)
              PF (4)
              PT (3).
           Write a COBOL program to calculate Gross pay and Net pay for employees in the organization using subroutines.   (10 Marks)

8   Write short notes on any FOUR :
     a.   Condition – name condition
     b.   GO TO with DEPENDING ON clause
     c.   SEARCH verb
     d.   MERGE statements
     e.   EXAMINE verb.   (20 Marks)

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