

PGDCA (Practicals) / MCA (I Yr) / BCA

Term-End Practical Examination

01702

June, 2010

CS-03P : FILE STRUCTURE AND PROGRAMMING IN COBOL

Time allowed : 2 hours

Maximum Marks : 100
(Weightage : 15%)**General Instructions :**

- (i) There are *two compulsory* questions in this paper of **40** marks each. Rest **20** marks are for *viva-voce*.
- (ii) Test your programs by running them on 5 to 10 records or data values.
- (iii) Print the programs and the results, if possible, otherwise write partial input and output on your answer script.
- (iv) Make and state suitable assumptions, if any.

1. A file contains data about students like Enrollment_No, Name and Marks. Write a COBOL program to sort a file into Class-Grade sequence, where Class_Grade is calculated using marks fields according to following rule : **40**

Class_Grade	Marks
1	< = 29
2	between 30 and 59
3	between 60 and 89
4	> = 90

Also, add Class_Grade to the sorted output records along with other student details and print all the output records.

2. Write a COBOL program to calculate the Simple Interest. Program can take input from users or takes input from a file containing value of P, R and D and output the Simple Interest (SI). **40**

Note : The formula for finding Simple Interest is :

$$SI = \frac{P \times R \times D}{100 \times 365}, \text{ where}$$

SI = Simple Interest

P = Principal Amount

R = Annual rate of interest

D = No. of days.