UPES
End Semester Examination, May 2023
Course: Mainframe Application Development using COBOL and JCL   Semester: VI
Program: B.Tech. (CSE) with spec. CSF (H+ NH)   Time   : 03 hrs.
Course Code: CSMT3017P   Max. Marks: 100

Instructions:

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q. 1	Describe COBOL program structure.	4	CO1
Q. 2	Explain the role of environment and data division in a COBOL program.	4	CO2
Q. 3	Illustrate the use of rename clause with suitable example.	4	CO2
Q. 4	Exemplify the use of Compute statement to write arithmetic expressions in COBOL.	4	CO3
Q. 5	Describe different type of compiler errors.	4	CO5

SECTION B
(4Qx10M= 40 Marks)

Q. 6	Compare Top-down approach and Bottom-up approach with suitable example.	10	CO2
Q. 7	Illustrate the use of tables in COBOL with suitable example. (OR) Write COBOL program for find out the number of words and total characters in an entered string through user.	10	CO3
Q. 8	Illustrate the use of file handling. Explain different modes in which a file can be open.	10	CO4
Q. 9	TRAP (ON/OFF) play a significant role in respect of handling of the ON SIZE ERROR, Comment.	10	CO5

SECTION-C
(2Qx20M=40 Marks)

Q. 10	i. COBOL coding sheet consists of how many columns? Describe the use of different parts of these columns.	5	
	ii. Exemplify the use of picture clause, picture string clause, value clause, filler clause and usage clause.	5	CO1
	iii. Identify the value of column "**edited value**" in below table:	10	

PICTURE DEFINED	NUMERIC VALUE MOVED	EDITED VALUE
ZZ9999	880	?
ZZ999	8.88	?
**9999	880	?
****	880	?
9999CR	-1234	?

Q. 11	Write a COBOL program for writing in a file with field value entered through user corresponding to following employee record attribute: Empid, empname, empdept, and address. Read the same data from file and display in spool. (OR) Illustrate the use of delete verb in respect of file handling and exemplify the same for deleting a record from a file.	20	CO4