

Name:	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
Enrolment No:	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2020**

<b>Course: Mainframe Application Development using COBOL</b> <b>Program: B. Tech (CSE + MFT)</b> <b>Course Code: CSMT3001</b>	<b>Semester: V</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>
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**SECTION A**

**1. Each Question will carry 5 marks, there are six questions in this section.**

S. No.		Marks	CO
Q. 1	Write two suitable words in each space. In COBOL Column 12 to 72 known as _____ and column 73 to 80 known as _____.	5	CO1
Q. 2	Write True/False in the blank space. In COBOL non-numeric literal should be enclosed within quotation mark _____ whereas numeric literal may consist of + or – sign and a decimal point _____.	5	CO1
Q. 3	<p>Q.3 to Q.6 are based on the source code given in Q.3.</p> <p>After execution of following code what will be the value of “WS-B”.</p> <p>(i) **357    (ii) 00357    (iii) 357    (iv) *****</p> <p>IDENTIFICATION DIVISION. PROGRAM-ID. YOUR-PROGRAM-NAME. DATA DIVISION. WORKING-STORAGE SECTION. 77 WS-A PIC 9(5) VALUE 00357. 77 WS-B PIC *****. 77 WS-C PIC 99V99 VALUE 55. 77 WS-D PIC 99.999. 77 WS-E PIC 9(3) VALUE 1234. 77 WS-F PIC 999900. 77 WS-G PIC -S9(5) VALUE 54321. 77 WS-H PIC 9(5)-. PROCEDURE DIVISION. MAIN-PROCEDURE. MOVE WS-A TO WS-B. DISPLAY "WS-B" WS-B. MOVE WS-C TO WS-D.</p>	5	CO2

	DISPLAY "WS-D" WS-D. MOVE WS-E TO WS-F. DISPLAY "WS-F" WS-F. MOVE WS-G TO WS-H. DISPLAY "WS-H" WS-H. MOVE WS-D TO WS-A. DISPLAY "WS-A" WS-A. STOP RUN. END PROGRAM YOUR-PROGRAM-NAME.		
Q. 4	After execution of source code given in Q.3 what will be the value of "WS-D". (i)55V00 (ii) 55.000 (iii) 55 (iv) 55.00	5	CO2
Q. 5	After execution of source code given in Q.3 what will be the value of "WS-F". (i) 23400 (ii) 001234 (iii) 023400 (iv) 123400	5	CO2
Q. 6	After execution of source code given in Q.3 what will be the value of "WS-H". (i) -54321 (ii) 54321 (iii) 54321- (iv) none of these	5	CO2
<b>SECTION B</b>			
<b>1. Each question will carry 10 marks, there are five questions in this section.</b> <b>2. Instruction: Write short / brief notes.</b>			
Q. 7	Explain the significance of level numbers and picture clauses with a suitable COBOL program.	10	CO1
Q. 8	What is the use of EVALUATE statement? Write a menu driven program to perform two operations addition and multiplication on two numbers. Where choice of operation and two numbers are enter through user.	10	CO3
Q. 9	"File handling is helpful in managing data", Justify. Explain different modes in which a file can be open.	10	CO4
Q. 10	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.	10	CO4
Q. 11	Illustrate SSRANGE and NOSSRANGE compiler option in respect of the object code that help in debugging.  (OR) TRAP (ON/OFF) play a significant role in respect of handling of the ON SIZE ERROR.	10	CO5
<b>SECTION-C</b>			
<b>1. Each Question carries 20 Marks.</b> <b>2. Instruction: Write long answer.</b>			
Q 12	Compare Following with suitable example. i. Condition name-condition ii. Rename and redefine iii. In line perform and out of line perform	20	CO3

iv. Top-down vs Bottom-up approach  
(OR)

What is the use of TABLE, data structure in COBOL? Write a COBOL program to accept rates of 3 items in three different states and display the same.

Table.

ITEM/Rates	1	2	3
ITEM1	212	210	215
ITEM2	101	105	95
ITEM3	900	925	930