

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, December 2018**

**Course:** Mainframe Application Development using COBOL

**Semester:** V

**Programme:** B.Tech. (CSE) with specialization in Mainframe Technology

**Time:** 03 hrs.

**Max. Marks:** 100

**Instructions:** Do as directed.

**SECTION A**

S. No.		Marks	CO
Q 1	i. Which of the following variable declarations are syntactically correct? (1) 01 VAR-1 PIC SX(4). (2) 01 VAR-2 PIC S9(4). (3) 01 VAR-1 PIC V99. (4) 01 VAR-1 PIC 9(4)S. (5) 01 VAR 1 PIC X(4). ii. Explain comment line and comment entry with suitable example.	4	CO1
Q 2	Write part of COBOL code for performing operation : $x=y/10*20$ using (a) Compute (b) Arithmetic verbs	4	CO1
Q 3	Explain different methods of debugging a COBOL program with suitable example.	4	CO2
Q 4	Illustrate the use of set statement in respect of table handling in COBOL with suitable example.	4	CO3
Q 5	Illustrate, what will happen if you code GO BACK instead of STOP RUN in a stand-alone COBOL program?	4	CO3

**SECTION B**

Q 6	Write a COBOL program to find out the lucky number based on user date of birth as input. (eg. 20/9/1998 will give you $20+9+1998=56$ and $5+6=11$ and $1+1=2$ is lucky no.)	8	CO3
Q 7	Following statements are valid or invalid. Justify your answer. i. Statement MULTIPLY X BY 6. ii. SUBTRACT X FROM '45'. iii. MOVE identifier-1(begin: ) to identifier-2. iv. MULTIPLY X Y BY Z.	8	CO1
Q 8	"File handling is helpful in managing data". Justify.	8	CO4
Q 9	Justify, modular programming approach helps programmer in variety of ways. (OR) Can we get the output of a COBOL program to a PS in place of SPOOL? Justify your answer with proper example.	8	CO2

Q 10	Compare Following with suitable example: (a) (i)Continue and Next (ii) Perform and GOTO (OR) (b) (i) In line perform and out of line perform (ii) Search and search all	8	CO3
<b>SECTION-C</b>			
Q 11	i. Compare different type of file organization and file access modes. Explain with suitable example. ii. 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.	8  12	CO4
Q 12	i. Write a COBOL program for find out total number of words and characters in a string entered through user.  ii. Illustrate TEST and NOTEST compiler option in respect of the object code that help in debugging. (OR) i. Write a COBOL program for reversing a string entered through user and compare both the strings and display message whether both are equal or not. ii. TRAP (ON/OFF) play a significant role in respect of handling of the ON SIZE ERROR.	10+  10	CO3,  CO5

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<b>Name of the School</b> (Please tick, symbol is given)	:	SOE		SOCS	☒	SOP	
<b>Programme</b>	:	B.Tech.(CSE) with specialization in Mainframe Technology					
<b>Semester</b>	:	V					
<b>Name of the Course</b>	:	Mainframe Application Development using COBOL					
<b>Course Code</b>	:	CSIB380					
<b>Name of Question Paper Setter</b>	:	Neeraj Chugh					
<b>Employee Code</b>	:	40000453					
<b>Mobile &amp; Extension</b>	:	9897263888					
<b>Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":</b>							
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Note: - Pl. start your question paper from next page

**Model Question Paper (Blank) is on next page**

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**SECTION A**

S. No.	Question	Marks	CO
Q 1	Explain different file OPEN modes available in COBOL.	4	CO4
Q 2	Specify valid/invalid with proper reason for following: a. COMPUTE X+Y=Z. b. COMPUTE X=Y ROUNDED.	4	CO1
Q 3	Write JCL code for compilation and execution of a COBOL code.	4	CO2
Q 4	Illustrate the use index and subscript in table handling with suitable example.	4	CO3
Q 5	Explain different type of perform statement with suitable example.	4	CO3

**SECTION B**

Q 6	Write a menu driven program for: i. Generate Fibonacci series. ii. Generate prime number between 1 and 100.	8	CO3
Q 7	Following statements are valid or invalid. Justify your answer. v. Statement MULTIPLY y BY 8.0. vi. SUBTRACT X FROM '60'. vii. MOVE identifier-1(begin: ) to identifier-2. viii. MULTIPLY X Y BY Z.	8	CO1
Q 8	Illustrate binary search in COBOL table with suitable example.	8	CO4
Q 9	Compare top down and bottom up approaches with suitable example. (OR) Can we get the output of a COBOL program to a PS in place of SPOOL? Justify your answer with proper example.	8	CO2 CO2
Q 10	Compare Following with suitable example(attempt any two): (a) (i) Condition name-condition and Condition (ii) Rename and redefine (OR) (b) (i) In line perform and out of line perform (ii) Next and Continue	8	CO3

**SECTION-C**

Q 11	iii. Compare different type of file organization and file access modes. Explain with suitable example. iv. Write a COBOL program for updation in a file with field value in respect of a record entered through user corresponding to following employee record attribute: Empid, empname, empdept, and address. Read the same data from file and display in spool.	8  12	CO4
Q 12	i. Write a COBOL program for find out total number of vowels in a string entered through user. ii. Illustrate SSRANGE and NOSSRANGE compiler option in respect of the object code that help in debugging. (OR) i. Write COBOL program for checking whether entered string is palindrome or not. ii. TRAP (ON/OFF) play a significant role in respect of handling of the ON SIZE ERROR.	10+  10	CO3,  CO5

