

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B. Tech. CSE with spl. Mainframe Technology
Subject (Course): Mainframe Application Development using COBOL
Course Code : CSIB380
No. of page/s: 2

Semester – V
Max. Marks : 100
Duration : 3 Hrs.

[Section-A]

[5*4M =20M]

Note: All questions in section-A are compulsory and required brief explanation.

1. What kind of errors can be trapped by ON SIZE ERROR option?
2. Can a search be done on a table without Index?
3. Is it necessary that file needs to be open in I-O mode for REWRITE?
4. Can we split one string, containing three words into three different strings?
5. Explain the use of “PERFORM paragraph-name-1 THROUGH/THRU paragraph-name-2 UNTIL condition” using suitable example.

[Section-B]

[4*10M=40M]

6. What is the use of EVALUATE statement? Write a menu driven program to perform following operations: [10M]
 - i. Reverse the entered number.
 - ii. Swap the value of two numbers without using third number.
7.
 - i. What is the use of level structure in COBOL? Explain different levels with suitable example of a COBOL program. [4M]
 - ii. Specify the following statements are correct or not, if not give the reason, if yes what will be the final value of data names. [3*2M=6M]
 - a. MOVE 40 TO A B C
 - b. SUBTRACT X AND Y FROM Z
 - c. MULTIPLY X Y BY Z
8. Differentiate between two ways of representation of Hierarchical structure of modules. [10M]
9. Can we write a single JCL for compilation and execution of a COBOL program? Justify your answer. [10M]

[Section-C]

[2*20M=40M]

Note: All questions in Section-C are of equal marks. Attempt any two out of three.

10. i. Can we get the output of a COBOL program to a PS in place of SPOOL? Justify your answer with proper example. [6M]

ii. 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. Write JCL to compile and execute the COBOL source code created for:

Table.

[14M]

ITEM/Rates	1	2	3
ITEM1	205	210	215
ITEM2	101	105	110
ITEM3	350	355	357

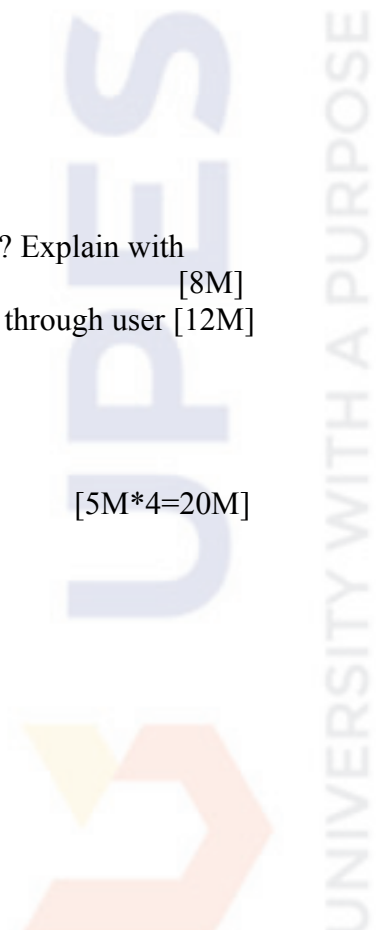
11. i. What are the different type of file organization and file access modes? Explain with suitable example. [8M]

ii. Write a COBOL program for writing in a file with field value entered through user [12M] corresponding to following student record attribute:
Student id, Sname, Sclass, Saddress.
Read the same data from file and display in spool.

12. Compare the following with suitable example:

[5M*4=20M]

- i. Continue and Next.
- ii. Redefine and Rename clause
- iii. Search and search all
- iv. DYNAM and NODYNAM





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Program	:	B. Tech. CSE with spl. Mainframe Technology				
Semester	:	V				
Name of the Subject (Course)	:	Mainframe Application Development using COBOL				
Course Code	:	CSIB380				
Name of Question Paper Setter	:	Mr. Neeraj Chugh				
Employee Code	:	4000153				
Mobile & Extension	:	989123888/1734				

Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":

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[Section-A]

[5M*4 =20M]

Note: All questions in section-A are compulsory and required brief explanation.

1. What will happen if you code GO BACK instead of STOP RUN in a standalone COBOL program?
2. What is the difference between subscript and index?
3. Can we define occurs clause at 01 level? Explain with suitable example.
4. Is there any difference between PIC 9.99 and PIC9v99? If, Yes, Explain.

[Section-B]

[4*10M=40M]

5. Can two or more simple conditions be combine to make it as a compound condition in COBOL? Justify your answer with suitable example.
6. Write the output for the following code with explanation:

```
IDENTIFICATION DIVISION.  
PROGRAM-ID. DEMO.  
DATA DIVISION.  
WORKING-STORAGE SECTION.  
77 WS-A PIC 9(5) VALUE 00357.  
77 WS-B PIC *****.  
77 WS-C PIC V999 VALUE 555.  
77 WS-D PIC 99.999.  
77 WS-E PIC 9(4) 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.  
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.  
STOP RUN.  
END PROGRAM DEMO.
```

7. 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.
8. What are the different string handling statement in COBOL? Write a COBOL program to replace all 'a' with '@' in a string. [10M]

[Section-C]

[2*20M=40M]

Note: All questions in Section-C are of equal marks.

9.
 - i. What are the different type of file organization and file access modes? Explain with suitable example. [6M]
 - ii. Write a COBOL program for rewriting a field value in a file with field value entered through user : [14]
corresponding to following student record attribute:
Student id, Sname, Sclass, Saddress.
Read the same data from file and display in spool.
10.
 - i. How binary search work in a COBOL table. Explain with suitable example. [10M]
 - ii. Write short note on following with suitable example: [10M]
 - a. condition-name condition
 - b. compare continue and next

