

Roll No: \_\_\_\_\_

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**End Semester Examination, April 2017**



**Program Name:** B. Tech. CSE with spl. Mainframe Technology

**Semester –VIII**

**Course Name :** Mainframe Application Development -II

**Max. Marks : 100**

**Course Code : CSIB464**

**Duration: 3 Hrs.**

**No. of page/s: 2**

**[Section-A]**

**[5\*4M=20M]**

**Note: All questions in section A are compulsory and of equal marks.**

1. What is the difference between literal and figurative constant? Explain with the help of a COBOL program.
2. Can we define occurs clause at 01 level? Explain with suitable example.
3. Compare NEXT and CONTINUE with suitable example.
4. What are the constrained to use of GO TO? Explain.
5. Is it necessary to open a file in I-O mode for REWRITE? Explain.

**[Section-B]**

**[4\*10M=40M]**

**Note: All questions in section B are compulsory and of equal marks.**

6. Write a COBOL code to accept a string from user and replace a particular character in that string with a specified character enter through user.
7. Write a COBOL program to accept first name and last name from user and display the name after concatenate of first and last name.
8. Can we write one JCL for compiling and executing a COBOL code? If, yes, write the same and justify your answer and if no then, why?
9. Explain the following syntax with suitable COBOL example:  
PERFORM procedure-name-1( {THRU/THROUGH} procedure-name-2) varying  
{identifier-1/index-name-1} from {identifier-2/index-name-2/literal-1} by  
{identifier-3/literal-2} UNTIL condition.

**[Section-C]**

**[2\*20M=40M]**

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

10. What are the different types of file available in COBOL? Write a COBOL program to write in a file about a student (as name, programe, semester, and CGPA), then read from file, and display the same. Write supporting JCLs also.
11. i. What are the different search options available in COBOL-table? Explain any one with suitable example.  
ii. Write short note on following:
  - a. Different type of compiler errors with error type, return code and description.
  - b. Arithmetic and Input/Output verbs with suitable example.

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**[Section-A]**

**[5\*4M=20M]**

**Note: All questions in section-A are compulsory and of equal marks.**

1. Write a COBOL program to explain the following:
  - a. Accept an integer date and returns a Julian date.
2. Accept an integer date and return a Gregorian date.
3. i. The following is PICTURE of total:

02 TOTAL PIC 999V99.

What will be the content of TOTAL when the following data is moved to it?

- a. ^46
- b. 7892^23

- ii. Assume the following DATA DIVISION entries.

01 BILL.

02 A PIC 99.

02 FILLER PIC X(7).

Indicate whether the following statements is in the PROCEDURE DIVISION are correct or not.

- a. MOVE “AB” TO A.
  - b. MOVE ZEROS TO A.
4. What is reference modification? Explain with suitable example.
  5. What are the constrained to use of GO TO? Explain.

**[Section-B]**

**[4\*10M=40M]**

**Note: All questions in section B are compulsory and of equal marks.**

6. Write a COBOL code to accept a string from user and replace a particular character in that string with a specified character enter through user.
7. Write a COBOL program for generating Fibonacci series.
8. Write JCL for compilation and execution of a COBOL code.
9. Explain the following syntax with suitable COBOL example:

PERFORM procedure-name-1({THRU/THROUGH} procedure-name-2) varying  
{identifier-1/index-name-1} from {identifier-2/index-name-2/literal-1} by  
{identifier-3/literal-2} UNTIL condition.

**[Section-C]**

**[2\*20M=40M]**

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

10. What are the different types of file available in COBOL? Write a COBOL program to write in a file about a student (as name, program, semester, and CGPA), then append one other additional detail of student. Write supporting JCLs also.

11. Write Short note on following, with suitable example:

- a. Compare Search and Search All.
- b. Illustrate different file modes.
- c. Compare redefine and rename.
- d. Compare EVALUATE with Conditional statement.

