

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Mainframe Application Development using JCL (CSIB 374)
Program: B.Tech (CSE with specialization in Mainframe Technology)
Time: 03 hrs.

Semester: IV
Max. Marks: 100

Instructions: All sections are compulsory. In section B, Question number 9 and 10 has internal choice to attempt. In section C, Question number 12 and 13 has internal choice to attempt.

SECTION A

S. No.		Marks	CO
Q 1	Describe the cases in which system initialization is required.	4	CO1
Q 2	Define the term SPOOLING in z/OS environment.	4	CO1
Q 3	Discuss EASYTRIEVE file types.	4	CO2
Q 4	Differentiate between KEEP and PASS sub-parameters used in DISP parameter.	4	CO3
Q 5	Write a JCL code to RENAME ESDS VSAM dataset.	4	CO4

SECTION B

Q 6	Elaborate phases of the life cycle of a job in batch processing.	10	CO1
Q 7	Write SAS program logic to check whether a given number is Armstrong or not using DO UNTIL loop.	10	CO5
Q 8	Explain the syntax and use of following build- in functions of SAS programming: ROUND, SUBSTR, COMPRESS, TRANSLATE and INDEX.	10	CO5
Q 9	Describe the syntax of SEARCH statement used in EASYTRIEVE. Write EASYTRIEVE logic to search DAYOFWEEK to copy NAMEOFDAY from WEEKDAY table to CALENDER table. The structure of tables are as follows: FILE CALENDER DAYOFWEEK 12 1 N NAMEOFDAY 14 20 A FILE WEEKDAY TABLE INSTREAM ARG 1 1 N DESC 3 9 A 1 SUNDAY 2 MONDAY 3 TUESDAY ENDTABLE	10	CO2
	OR		
Q 10	Describe SORT statement used in EASYTRIEVE with its syntax. Also explain the syntax for procedure creation and to call a procedure in EASYTRIEVE.	10	CO2

SECTION-C

Q 11	<p>Elaborate the term “Generation Data Group (GDG)” with its parameters. Write JCL code to define a GDG base with programmer defined parameters. Write another JCL code having two EXEC statements:</p> <p>A) To create a dataset generation B) To copy instream data from JCL to newly created generation.</p>	20	CO3
Q 12	<p>“VSAM datasets have a number of disadvantages over non-VSAM datasets”. Justify the statement. Illustrate the terms RBA, RRN, RDF, CIDF and CI used in VSAM terminology.</p>	20	CO4
OR			
Q 13	<p>Analyze the role of following parameters (with syntax) while defining a KSDS cluster: RECORDSIZE, KEYS and FREESPACE. Write a JCL program to copy selected records from one KSDS to another KSDS depending upon key value and print resultant KSDS.</p>	20	CO4

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