Name: Enrolment No:	![UPES logo] UPES UNIVERSITY OF TOMORROW

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2022

Course: Fundamental Mainframe System Skills   Semester: V
Program: B.Tech. (CSE-CSF, DevOps, GG,AI & ML)   Time   : 03 hrs.
Course Code: CSMT3016P   Max. Marks: 100

Instructions:

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1.	Describe RAS features of Mainframe.	4	CO1
Q 2.	Explain the use of Parallel Sysplex.	4	CO1
Q 3.	Illustrate different rules for naming z/OS datasets with suitable examples.	4	CO2
Q 4.	Illustrate how to copy and move dataset using ISPF.	4	CO3
Q 5.	i. Write different type of permissions that are used for files and directories in the Linux Operating System. ii. Write command to change the permissions of a file. iii. Write command which will add execute permission to all owners of the file. iv. Write, which number is used for "read" permission in the Linux operating system.	4	CO4
	SECTION B (4Qx10M= 40 Marks)		
Q 6.	Compare Batch processing and Online processing with suitable example.	10	CO1
Q 7.	i. Differentiate the uses of PS and PDS with suitable example. (OR) ii. Categorized Z/OS datasets and illustrate the use of them.	10	CO2
Q 8.	Illustrate the Job Entry System (JES) and Initiator. Draw a neat diagram to show the working of JES.	10	CO3
Q 9.	Describe z/OS Unix HFS on z/OS HFS dataset with suitable example.	10	CO4
	SECTION-C (2Qx20M=40 Marks)		
Q 10.	i. Describe the different phases of JES2 and draw a neat diagram for the same. ii. Justify the use of JCL in Mainframe and describe the use of EXEC and DD statements with suitable example. (OR)	10 10	CO3

	i. Illustrate the requirement of SDSF with suitable example.	**10**	
	ii. Exemplify different parameters of DD keyword.	**10**	
Q 11.	i. Illustrate the use of different steps of program preparation under z/OS.	**10**	
	ii. Exemplify absolute and relative paths with suitable examples.	**5**	

	iii. Write a shell script to perform:
	    a. Create a z/OS Unix directory.
	    b. Change the permission on demodir to 755.
	    c. At end clean exit.
		5	**CO4**