


Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Mainframe operating systems	Semester: III
Program: B. Tech. (CSE) with specialization in Mainframe Technology	Time : 03 hrs.
Course Code: CSMT2001	Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1.	Compare LPAR mode and Z/VM guest mode partitioning on system Z.	4M	CO1
Q 2.	Differentiate between following commands in respect of XEDIT file editing: FILE, QUIT, FFILE, QQUIT	4M	CO2
Q 3.	Explain different steps required, prior to access a minidisk.	4M	CO3
Q 4.	Illustrate the use of Program Status Word (PSW).	4M	CO4
Q 5.	Describe different type of subsystem request.	4M	CO5

SECTION B

Q 6.	Justify, the use of Linux as guest operating system of Z/VM.	8M	CO1
Q 7.	<p>Write commands for following:</p> <ul style="list-style-type: none"> a. Display all files with file type EXEC on any accessed disk. b. Display all files of all file type on disk D. c. Display files on D with file type COBOL having file name of 4 characters. d. Display all files starting with M on A with name starting with M something then Y. <p style="text-align: center;">(OR)</p> <ul style="list-style-type: none"> e. Display all files starting with A and ending with A on disk A. f. Display all files where first character in file name is A and fourth character is e with any extension on any disk. g. Display all files where last character of file is A and extension is REXX on disk A. h. Display all files where third character of file is i and extension is CPP on any disk. 	4*2M= 8M	CO3
Q 8.	Exemplify the role of different storage managers of Z/OS.	8M	CO4
Q 9.	Illustrate, CP and CMS support working for Z/VM.	8M	CO1
Q 10.	Explain the process of sharing of files in between two users with the help of commands. Is it possible that without receiving a send file in to your disk you can	8M	CO3

	display the file? Justify your answer.		
SECTION-C			
Q 11.	During execution, a job goes through with different phases. Describe the use of each phase with the help of a diagram.	20M	CO5
Q 12.	Compare the following: a. Multi programming vs Multiprocessing b. Compare cold start, quick start and warm start. (OR) c. Paging vs. swapping d. User administration and DASD administration	20M	CO4