

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: Mainframe Operating System **Semester: III**
Programme: B.Tech. (CSE) with specialization in Mainframe Technology **Time: 03 hrs.**
Max. Marks: 100
Instructions: Do as directed.

SECTION A

S. No.		Marks	CO
Q 1	Explain different functions of Virtualization.	4	CO1
Q 2	Name the command for performing following tasks in XEDIT: i. Move the line pointer to the line above the first line of file. ii. Specify whether prefix area should contain the line number, iii. Searching a string in a file. iv. Move command line to top/bottom/off.	4	CO2
Q 3	Describe the use of following commands: i. FILELIST * EXEC * ii. FILELIST T * COBOL iii. LISTFILE * * D iv. LISTFILE M%% XEDIT B	4	CO3
Q 4	Explain the concept of virtual storage.	4	CO4
Q 5	Describe, Linux as guest of z/VM.	4	CO1

SECTION B

Q 6	Apply different options used with GRANT AUTHORITY command with suitable example.	8	CO3
Q 7	Illustrate subsystem request types and requirements of these requests.	8	CO5
Q 8	Justify the statement "SPOOLING is the process by which processing delay between peripheral devices and processor can be reduced".	8	CO6
Q 9	Illustrate the use of SMP/E and SMP/E view of the system. (OR) Illustrate different type of SYSMOD's with suitable example.	8	CO6
Q 10	Explain the use of PSW with suitable example. (OR) Describe the process of IPL and compare different types of IPL. Provide some situations when IPL is required.	8	CO4

SECTION-C

Q 11	i. Illustrate the requirement of DASD administration with suitable	10	CO4
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	<p>examples.</p> <p>ii. Explain the different parameters for subsystem definition in respect of IEFSSN_{xx}.</p>	10	CO5
Q 12	<p>i. Illustrate the importance of “File Pool Server Machine” in shared file pool access. Explain the types of file pool servers with their role in SFS.</p> <p style="text-align: center;">(OR)</p> <p>Compare different kinds of data stored in a file pool in respect of their uses.</p> <p>ii. Write short notes on following:</p> <p>a. Multiprogramming vs Multiprocessing</p> <p>b. Differentiate between CP and CMS in z/VM. Write the commands used to provide following information in CP/CMS:</p> <ol style="list-style-type: none"> 1. Display CP version and its IPL time 2. Display the information of all users created in z/VM environment with their status. 3. To display the privilege class and directories information for currently logged in user. 	10	CO3
		10	CO3
		5	CO4
		5	CO1


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Name of the School <small>(Please tick, symbol is given)</small>	:	SOE	☒	SOCS		SOP	
Programme	:	B.Tech.(CSE) with specialization in Mainframe Technology					
Semester	:	III					
Name of the Course	:	Mainframe Operating System					
Course Code	:	CSMT2001					
Name of Question Paper Setter	:	Neeraj Chugh					
Employee Code	:	40000453					
Mobile & Extension	:	9897263888					
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

S. No.		Marks	CO
Q 1	Name different types of Operating Systems available at Mainframe and brief about them..	4	CO1
Q 2	Differentiate between BOTTOM and DOWN commands used in XEDIT with their syntax. Write the XEDIT commands to search a string in a file and to jump to line number 10 in XEDIT file.	4	CO2
Q 3	Name the fields and uses, which are listed for FILELIST.	4	CO3
Q 4	Explain the use of PEEK command with suitable example.	4	CO4
Q 5	Compare page, frame and slot.	4	CO4

SECTION B

Q 6	Illustrate linking and sharing of minidisk at Mainframe.	8	CO3
Q 7	Explain Subsystem and uses of different types of subsystem	8	CO5
Q 8	Compare JES2 and JES3.	8	CO6
Q 9	Illustrate the use of SMP/E and SMP/E view of the system. (OR) Compare system programmer and application programmer in Mainframe environment.	8	CO6
Q 10	Distinguish among permanent minidisk, temporary minidisk and virtual minidisk in mainframe systems. Write the steps and commands used to release minidisk. Also write the fields in filelist with their description. (OR) Describe the process of IPL and compare different types of IPL. Provide some situations when IPL is required.	8	CO4

SECTION-C

Q 11	iii. Illustrate the requirement of DASD administration with suitable examples.	10	CO4
	iv. Explain the different parameters for subsystem definition in respect of IEFSSNxx.	10	CO5

Q 12	<p>(i) Compare listfile and filelist with suitable example (OR) Compare different kinds of data stored in a file pool in respect of their uses.</p> <p>(ii) Explain the purge phase of job flow with help of diagram. (OR) Explain the output and hard copy phase of job flow with the help of diagram.</p>	<p>10</p> <p>10</p>	<p>CO3</p> <p>CO6</p>
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