

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

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

Course: Linux on Mainframes (CSMT 3002)	Semester: V
Programme: B.Tech (CSE with specialization in Mainframe Technology)	
Time: 03 hrs.	Max. Marks: 100
Instructions: All sections are compulsory.	

SECTION A

S. No.	Question	Marks	CO
Q 1	Describe the software resources, required to install Linux under z/VM.	4	CO2
Q 2	Analyze the benefits of cloning under z/VM.	4	CO3
Q 3	Write the commands to format and partition the minidisks.	4	CO3
Q 4	State the functions performed by RPM with suitable example.	4	CO4
Q 5	Discuss the significance of Lightweight Directory Access Protocol.	4	CO5

SECTION B

Q 6	Elaborate various ways of running Linux on System z.	10	CO1
Q 7	Describe following components of Linux operating system: kernel, file system, shell and system management tools.	10	CO1
Q 8	Explain the stages involved in installation and configuration of OpenLDAP server.	10	CO5
Q 9	<p>Explain the process of adding minidisks to SLES11S1 from z/VM and making the new minidisks available to Linux.</p> <p style="text-align: center;">OR</p> <p>Illustrate the significance of Logical Volume Manager (LVM). Discuss the commands used to create a physical volume from two DASDs, to create a single volume group and to create a single logical volume.</p>	10	CO3

SECTION-C

Q 10	Elaborate the term, “Network File System (NFS)” and “File Transfer Protocol (FTP)”. Write the steps, along with Linux commands, involved in installation and configuration of an NFS server.	20	CO4
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Q 11	<p>“There are several possible ways to install SLES11 SP1 on the mainframe”. Justify the statement. Summarize the steps involved in installation of SLES11 SP1 on z/VM using an FTP server.</p> <p style="text-align: center;">OR</p> <p>Describe the advantages of running Linux under z/VM. Outline the steps involved in installation of Linux under native LPAR mode using HMC.</p>	20	CO2
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