## VCD/ 7 | 12/22 F.Y.B.Sc.(CS) SEM I LINUX 21/2 HRS 75 MARKS

Note:	An questions are compulsory.	
	All questions carry equal marks.	
	Draw neat, labelled diagrams wherever necessary.	
	Diaw near, labelled diagrams wherever hoodstary.	
0.1	Addressed the Sellensing (Amy Form)	20 M
Q.1	Attempt the following. (Any Four)	20 IVI
··a.	What is Linux Kernel? Explain distributions of Linux.	
b.	Explain the various commands used to archive file data with suitable	
	example.	
c.	Explain Linux architecture with proper diagram.	
d.	Write commands for the following:	
	i) Create a directory "FYCS".	
	ii) Create two files namely "Flowers" and "Fruits" with suitable	
	data in it.	
	iii) Count and display only repeated lines in the Flowers file.	
	iv) Display last 5 lines of file Fruits.	
	v) Delete directory "FYCS".	
e.	How to locate system environment variables in Linux?	
f.	Write a short note on Linux Filesystem.	
Q.2	Attempt the following. (Any Four)	20 M
a.	Explain the following:	
	i) Absolute Pathname	
1.	ii) Relative Pathname	
b.	What is /etc/passwd file? Explain all the fields of it.	
c.	Explain three modes of vi editor.	
d.	Explain softlink and hardlink with suitable example.	
e.	What are the uses of root? Also explain the sudo command.	
$f_{\iota}$	Explain basics of TCP/IP model.	
Q.3	Attempt the following. (Any Four)	20 M
a.	Why signals are used in Linux? List most common Linux signals.	
b.	Explain following commands: nice, renice, at, batch	
C.	Explain Ifthenelsefi with suitable example.	
d.	Explain Input Redirection with appropriate example.	
e.	Explain while command with suitable example.	
f.	Write a shell script to check whether the string is palindrome or not	
	palindrome.	
Q.4 *	Attempt the following. (Any Five)	15 M
a.	What are command aliases? Why do we use it?	20 112
b.	Explain following command with suitable example: cat, tty, rm	
c.	Explain chmod, chown and chgrp commands in Linux.	
d.	Explain awk command with suitable example.	
e.	Explain the use of <b>expr</b> command for performing mathematical	
٥.	operations in Linux.	
f.	Briefly explain <b>jobs</b> command with its all parameters.	
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