


Name: Enrolment No:	 UPES <small>UNIVERSITY WITH A PURPOSE</small>	
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, Dec 2020		
Course: B.Sc. (Hons.) Physics / Mathematics Program: - Operating System : Linux Course Code: MATH2033K		Semester: III Time 03 hrs. Max. Marks: 100
Instructions:		
SECTION A		
1. Each Question will carry 5 Marks		
2. Instruction: Complete the statement / Select the correct answer(s)		
S. No.	Question	CO
Q 1	Which environment variable contains a list of directories that is searched for commands to execute? a) PATH b) PS1 c) PS2 d) EXEC	CO4
Q 2	The statement that describes the difference between a man page and an info page is: a) The man page is like a guide; the info page is a more concise reference. b) The info page is like a guide; a man page is a more concise reference. c) The man page is a long detailed reference; the info page is very terse. d) There is very little difference between them.	CO2
Q 3	The touch command can be used to: (choose two) a) Change a file's name b) Change ownership of a file c) Create new files d) Update the timestamp of existing files	CO1
Q 4	The three main modes of tar are: (choose three) a) List	CO2

	<ul style="list-style-type: none"> b) Extract c) Create d) Compress e) Cop 	
Q 5	<p>The tilde (~) is used to represent:</p> <ul style="list-style-type: none"> a) Any two single characters b) The directory above the current working directory c) A user's home directory d) Nothing; it has no special meaning 	CO3
Q 6	<p>In graphical mode, you can get to a shell by running which applications ? (choose two)</p> <ul style="list-style-type: none"> a) Xterm b) Guiterm c) Terminal d) console 	CO3
SECTION B		
<p>1. Each question will carry 10 marks 2. Instruction: Write short / brief notes</p>		
Q 7	List the functionalities of operating system.	CO1
Q 8	Justify statement “ <i>Linux is everywhere</i> “	CO1
Q 9	Application of CLI as end user point of view.	CO2
Q 10	How we are managing files in Linux OS. Apply Linux commands for copy, moving and renaming the files.	CO3
Q 11	Explain the purpose of shell Scripts. Elaborate on variable, condition and loops with example.	CO3
SECTION-C		
<p>1. Each Question carries 20 Marks. 2. Instruction: Write long answer.</p>		
Q 12	Elaborate the concept of system call with diagram. List the function of process management system call and file management system calls. Why we use exit(), fork() and kill() system call.	CO4