

Total No. of Questions – [4]

Total No. of Printed Pages: [1]

PRN. No.	
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PAPER CODE	U114-335 (Backlog)
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DEC 2024 (Backlog) EXAM SEM-I

F.Y. (COMPUTER ENGINEERING)

(PATTERN 2023)

COURSE NAME: INTRODUCTION TO LINUX AND SHELL PROGRAMMING

COURSE CODE: CS12235

Time: [2Hr]

[Max. Marks: 60]

(*) Instructions to candidates:

- 1) Use of a scientific calculator is allowed
- 2) Use suitable data wherever required
- 3) All questions are compulsory. Solve any THREE sub questions from EACH question

Que. No.	Question Description	Max. Marks	CO mapped	BT Level
Q1.	Solve any three sub questions from the following			
	A) Explain the role of the operating system in process management.	[5]	1	Understanding
	B) What are the key functions of memory management in an OS?	[5]	1	Understanding
	C) Describe the significance of file management in an operating system.	[5]	1	Understanding
	D) Discuss how scheduling works in operating systems and its importance.	[5]	1	Understanding
Q2.	Solve any three sub questions from the following			
	A) Explain the architecture of the Linux operating system.	[5]	2,3	Understanding
	B) Explain the use of common Linux commands (ls, pwd, cd, cp, mv) with examples.	[5]	2,3	Understanding
	C) What is the role of the shell in Linux? How does it interact with the kernel?	[5]	2,3	Understanding
	D) Discuss the method of file storage in Linux and its advantages.	[5]	2,3	Understanding
Q3.	Solve any three sub questions from the following			
	A) Write a shell script that prints a list of all files in a directory along with their sizes.	[5]	4	Applying
	B) Create a shell script to check whether a user-input number is prime or not.	[5]	4	Applying
	C) Explain how to use looping constructs in shell scripting with an example.	[5]	4	Applying
	D) Write a script to display the first 10 lines of a file using shell scripting.	[5]	4	Applying
Q4.	Solve any three sub questions from the following			
	A) How would you use the find command in Linux to locate all files modified within the last 7 days? Explain with a command.	[5]	5,6	Analyzing
	B) Explain the usage of chmod command for changing file permissions in Linux. Provide examples.	[5]	5,6	Analyzing
	C) Write the Linux command for finding and deleting all empty files in a directory. Explain the syntax.	[5]	5,6	Analyzing
	D) How can file ownership be changed in Linux using chown? Discuss its significance.	[5]	5,6	Analyzing

