No	. of Printed Pages – 3	CA302
	Roll No.	
	B.C.A	
	FIFTH SEMESTER EXAM	
	UNIX AND SHELL P	•
Tin	ne : 3 Hours	Max. Marks : 60
No	te : (i) Attempt ALL questions. (ii) Choices are given in each	question set.
1.	Attempt any Four of the following	questions: 3 x 4 =
	(a) Explain the function of Kerne	and Shell in UNIX.
	(b) Explain various blocks of UN	X file system.
	(c) Distinguish between Abso	lute Pathname and Relative
	Pathname	
	with suitable example.	
	(d) Write any two directory re related commands in UNIX w	
	(e) Explain various features of U	•
	(f) Define following commands i	n UNIX with suitable example:
	(i) echo (i) who
	(iii) mkdir	
2.	Attempt any Four of the following	questions: 3 x 4 =
	12	
	(a) Explain Vi editor. Define In	put and Command mode wit
	example.	

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- **(e)** What do you mean by File permissions? Write the procedure to change the file permission in UNIX?
- (f) Define any four system calls used for process management with example.
- 3. Attempt any Two of the following questions:6 x 2 =
 - (a) How to create a new user account in UNIX. User account

- **(b)** Write UNIX command to run the process in background. Differentiate between KILL and DELETE command.
- (c) Define init and cron command with example.
- (d) What is the significance of PID and PPID? Explain with example.

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5. Attempt any **Two** of the following questions:

 $6 \times 2 =$

12

- (a) (i) What is filter in UNIX? Discuss any two filter commands with suitable example.
 - (ii) Explain Cut, Paste command in UNIX with syntax.
- **(b) (i)** How to count the number of words and lines in a given file? Write command with syntax in UNIX.
 - (ii) Explain the following with suitable example:
 - **(1)** pr

(2) grep

name is your name and set the password. Write the steps to delete the newly created account.

- (b) (i) State the security features of UNIX.
 - (ii) Define Bootstrap and explain the role of Superuser in administration task.
- (c) Explain the following commands with suitable example:
 - (i) mount

(ii) tar

(iii) nice

(iv) Su

- (v) chmod
- **4.** Attempt any **Two** of the following questions:

 $6 \times 2 =$

12

- (a) (i) Write a shell script to check the given number is Prime or Not.
 - (ii) Write a shell script to check the given number is Palindrome or Not.
- **(b) (i)** Explain the following with suitable example:
 - (1) case- esac
- **(2)** if fi
- (ii) Differentiate between while and for loop in UNIX.
- (c) Write a Shell Script to input 3 Subjects Marks and calculate the percentage according to following criteria.
 - (i) If average <90 and >=75 Honour
 - (ii) If average <75 and >=60 First Division
 - (iii) if average <60 and >=45 Fail
 - 2

- (3) uniq
- (c) (i) Write short notes on nroff and tbl with example.
 - (ii) Explain sed with suitable example.