Question Paper Code: 6576

BCA (Semester-V) Examination, 2021

UNIX AND SHELL PROGRAMMING

[Paper: BCA-504]

Time: Three Hours] [Maximum Marks: 70

Note : Answer any five questions. All questions carry equal marks.

- What is an Operating System (OS) ? Explain Unix architecture with diagram and features of UNIX OS. How it differs from Linux ? [14]
- 2. (a) Discuss relative and absolute file access permissions with example. [7]
 - (b) What is a filter in UNIX? List out various filters inUNIX. Explain any three. [7]
- Define Process. Explain different states of a process with diagram. Which command is useful to know the status of process? Explain it with example. [14]

6576/800 (1) [P.T.O.]

4.	(a)	Explain any four operations that ca	n be	8.	(a)	What are the file types available in Unix? Discuss
		performed on a file.	[7]			file operators with suitable examples. [7]
	(b)	Explain the commands cp, rm and car	t with		(b)	Explain in detail foreground and background jobs.
		examples.	[7]			Give example. [7]
5.	(a)	What are the applications of 'sed' comm	and ?	9.	(a)	Write a shell program for counting characters,
		Explain.	[7]			words, size and number of line. [7]
	(b)	What is Shell's Interpretive cycle? Also des	scribe		(b)	Explain, what will happen when the following
		shell offerings.	[7]			command is typed inside the vi Editor: [7]
6.	(a)	What is Regular Expression ? Explain an	y one			∞(i) i (ii) j
		utility which use regular expression, with p	proper			(iii) ~ (iv) p
		example.	[7]			(11)
	(b)	Define Redirection. List out the symbols us	ed for	10.	Write	short notes on the following: [14]
		redirection.	[7]		(i)	Zombie state of a process
7.	(a)	What information is presented when the foll			(ii)	fork() system call
		commands are entered :	[7]		(iii)	Pattern Matching
		(i) date (ii) who			(iv)	File Permission
		(iii) passwd (iv) mv				x
	(b)	Define vi Editor and explain its modes. Also	o write			
		commands used in the vi Editor.	[7]			
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