

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

BCA-502

UNIX AND SHELL PROGRAMMING

Time Allotted: 3 Hours

Full Marks: 70

The questions are of equal value.

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable. All symbols are of usual significance.

GROUP A (Multiple Choice Type Questions)

1. Answer any *ten* questions.

 $10 \times 1 = 10$

- (i) The 'logout' built in command is used to
 - (A) shutdown the computer
 - (B) logoff of the computer
 - (C) logout the current user
 - (D) to exit the current shell
- (ii) The command 'umask -S'
 - (A) prints the current mask using symbolic notation

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- (B) prints the current mask using octal numbers
- (C) sets the mask to 000
- (D) sets the mask to 777

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(iii)	Which option of the kill on name to the specified process	command sends the given signal ss?
	(A)-1	(B) -n
	(C) -s	(D) -a
(iv)	Which command puts a streceived?	script to sleep until a signal is
	(A) Sleep	(B) Suspend
	(C) Disown	(D) Break
(v)	The command 'ulimit'	
	(A) set a limit on specified r	esource for system users
	(B) set/show process resource	ce limit
	(C) both (A) and (B)	
	(D) none of these	
(vi)	Which command wait for tand return the exit status?	the specified process to complete
	(A) Sleep	(B) Wait
	(C) Delay	(D) Stop
(vii)	Which command prints the times for processes run from	e accumulated user and system the shell?
	(A) Time	(B) Times
	(C) Both (A) and (B)	(D) None of these
viii)	The expression expr -9% 2	evaluates to
	(A) 0	(B) 1
	(C)-1	(D) 2
(ix)		txt" that is a concatenation of
	(A) cp file.txt file2.txt new.t	xt
	(B) cat file1.txt file2.txt > ne	ew.txt
	(C) mv file [12].txt new.txt	
	(D) ls file1.txt file2 txt new	z.txt

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(x)	Which shell offers a comma	nd history feature?	
•	(A) C shell	(B) Visual shell	
	(C) Bourne shell	(D) Korn shell	
(xi)	Which command is used to queue?	remove a print job from the print	
	(A) lprm	(B) lpq	
	(C) lpstat	(D) none of these	
(xii)	'chown' command changes	the	
	(A) home directory of a user	· And the second	
	(B) access permission of a fi		
-	(C) priority of a process		
	(D) none of these		
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		ROUP B r Type Questions)	
	(Shore Allowe	Type Questions)	
	Answer any three questions.		$3 \times 5 = 15$
2.		programming and multi tasking. ween relative and absolute path?	3+2
3.	What is daemon process? V and cd?	What is the difference between cd	2+3
4.	What are the different ways	of using chmod?	5
5.	Draw the UNIX architectur it?	e. What are the different parts of	3+2
6.	What is i-node? What does i	t contain?	1+4
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7.	What is filter?	Describe the	function of any	two filters.
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2+3

GROUP C (Long Answer Type Questions)

		Answer any three questions.	$3\times15=45$
8.	(a)	Write a shell program to find prime numbers between 1 to n.	7
	(b)	What do you understand by PATH variable? How does the kernel access file?	2+3
	(c)	What is unique command? Explain with example.	3
9.	(a)	Describe the log in process briefly.	. 5
	(b)	Describe the ps -f command in detail.	5
	(c)	Describe the modes of vi editor.	5
10.	(a)	Write a shell program to generate fibbonaci series.	6
	(b)	Write a shell program to reverse a number.	7
	(c)	How to copy 4 lines and paste it to another file in vi editor?	2
11.		Write short notes on any three of the following:	3×5
	(a)	Soft link and Hard link	
	(b)	Mounting and unmount	
	` '	Background job execution	
	` '	Is command	•
	` '	IFS	