Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment N	No
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Faculty of Engineering End Sem (Odd) Examination Dec-2017 CA5CO16 Linux Programming & Scripting

Programme: MCA Branch/Specialisation: Computer Application

Duration: 3 Hrs. Maximum Marks: 60

	_		mpulsory. Inter tten in full inste		=	ndicated. An	swers of
Q.1	i.	Applications			kernel	by using	g: 1
		(a) System C		(b) C Progr	rams		
		(c) Shell Scr	•	(d) Shell			
	ii.		_ is the shell tha		a single user	r mode.	1
		(a) Bash	(b) Csh	(c) Ksh	(d) Sh		
	iii.	X.25 is an ex	xample of which	h of the follow	wing netwo	rk(s)	1
		(a) Circuit sv	witched	(b) Packet	switched		
		(c) Network	switched	(d) Both (a) and (b)		
	iv.	Which of the	e following is a	n example of	DFS?		1
		(a) RAM	(b) Sun NFS	(c) AFS	(d) Botl	n (b) and (c)	
	v.	What is the	output of the fol	llowing progr	am?		1
		x = 3; y = 5;	z = 10;	0.1			
		if [(\$x -eq 3) -a (\$y -eq 5	-o \$z -eq 10)]		
		then		•			
		echo \$x					
		else					
		echo \$y					
		fi					
		(a) 1	(b) 3	(c) 5	(d) Erro	or	
	vi.	Hidden files	s are				1
		(a) Those wh	nose 'read' bit i	s set to 'h'			
		(b) Permitted	d for (can be acc	cessed) only s	superusers		
		(c) Files that	begin with a '.	,			
		(d) Files that	t cannot be oper	ned by ordina	ry user for	writing.	
							РΤО

P. T.O.

	vii.	Chop(\$string) in PERL	1	
	(a) Removes the end-of-line character of the operand and returns			
	the number of characters removed (0 or 1)			
		(b) Removes the last character of the operand and returns the		
		removed character		
		(c) Removes the last word of the operand and returns the removed		
		word		
		(d) None of these		
	viii.	is the keyword used to load standard functions in PERL.	1	
		(a) Put "fname.pl" (b) Require "fname.pl"		
		(c) Use "fname.pl" (d) Get "fname.pl"		
	ix.	What would be the output for the following Python Script?	1	
		>>>"!!!Python!!!"*3		
		(a) !!!Python!!! (b) "!!!Python!!!"*3		
		(c) "!!!Python!!!" (d) Error		
	х.	For immutable and mutable objects, how does the python script act?	1	
		(a) Pass by reference, pass by value		
		(b) Call by value, call by reference		
		(c) Pass by value, pass by reference		
		(d) None of these		
Q.2	i.	What are the basic components of Linux Operating System?	2	
	ii.	Write important features of Linux operating system.	3	
	iii.	Explain the following commands with example:	5	
		(a) Gzip (b) Vim (c) File (d) Lpr		
OD		(e) Alias	_	
OR	iv.	Describe the Linux file system hierarchical structure with its	5	
		necessary directories and files.		
Q.3	i.	What is FTP in Linux?	2	
	ii.	Explain the following commands:	8	
		traceroute, nslookup, ping, ethtool, tcpdump, ifconfig, netstat/u, netstat/a		
OR	iii.	Write short note on:	8	
		(a) DNS (b) NFS		

1	Q.4	i. ii.	What is sed? Compare sed with grep. Write a shell script to display all the numbers that are divisible by 3 and 5 both within a particular range.	3 7
	OR	iii.	Write a menu- driven shell program for the following options (a) List of files (b) Processes of Users (c) Today's Date (d) Quit out of Unix	7
	Q.5	i.	What is chop(), chomp() functions? Explain them with example.	4
1		ii.	What are associative arrays? How will you obtain only keys of an associative array in Perl?	6
1	OR	iii.	Write a Perl script to demonstrate the following functions used in array: push, pop, shift, unshift	6
	Q.6		Attempt any two:	
1	-	i. ii.	Explain about Python's parameter passing mechanism? As Everything in Python is an Object, Explain the characteristics of Python's Objects.	5 5
		iii.	What are Exception Handling? How do you achieve it in Python?	5

CA5CO16 Linux Programming & Scripting Marking Scheme

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Q.1	i.	(d)	1
	ii.	(d)	1
	iii.	(c)	1
	iv.	(d)	1
	v.	(b)	1
	vi.	(c)	1
	vii.	(b)	1
	viii.	(c)	1
	ix.	(a) & (c) both	1
	х.	(a)	1
Q.2	i.	Basic components	2
	ii.	Features of Linux operating system.	3
	iii.	(a) gzip (b) vim (c) file (d) lpr (e) alias	5
OD	•	1 mark for each (1 mark * $5 = 5$ marks)	_
OR	iv.	Diagram- 2 marks	5
		Description - 3 marks	
Q.3	i.	Definition	2
	ii.	traceroute, nslookup, ping, ethtool, tcpdump, ifconfig, netstat/u,	8
		netstat/a	
0.0		1 mark for each (1 mark * 8 = 8 marks)	
OR	iii.	DNS, NFS	8
		4 marks each (4 marks * 2 = 8 marks)	
Q.4	i.	What is sed – 1 mark	3
		Compare sed with grep − 2 marks	
	ii.	Logic – 3 marks	7
		Syntax – 4 marks	
OR	iii.	Complete program – 7 marks	7
Q.5	i.	chop() − 2 marks (1 mark for definition+ 1 mark for example)	4
-		chomp() - 2marks (1 mark for definition+ 1 mark for example)	
	ii.	What are associative arrays – 2 marks	6

		How will you obtain only keys of an associative array in Peri –	
		4 marks	
OR	iii.	push, pop, shift, unshift – 1.5 marks for each	6
		(1.5 marks * 4 = 6 marks)	
Q.6		Attempt any two:	
	i.	All Mechanism – 5 marks	5
	ii.	Characteristics – 5 marks	5
	iii.	Exception Handling – 2 marks	5
		How do you achieve it in Python − 3 marks	
