Enrollment No.....



Q.1

Faculty of Engineering End Sem (Odd) Examination Dec-2018

CA5CO16 Linux Programming & Scripting
Programme: MCA Branch/Specialisation: Computer

Application

P.T.O.

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

CQs) sl	nould be written in full in	stead of only a, b, c or d.	
i.	Which of below kill command syntax is correct to terminate an ongoing process?		
	(a) kill <application></application>	(b) kill <process id=""></process>	
	(c) kill <name></name>	(d) None of these.	
ii.	Write a command th	nt will display all .py files alongwith	1
	permission.		
	(a) ls -al *.py	(b) ls -ap *.py	
	(c) ls -cl *.py	(d) $ls - dp *.py$	
iii.	What is sed?		
	(a) Command line interpreter (b) Configuration file		
	(c) A hex editor (d) A non-interactive stream editor		
iv.	In the shell, by default,	all variables are considered and stored as	1
	· / ·	. , ,	
v.	How to get 5 th element from each line from a file?		
	(a) awk '{get \$5}'	(b) awk '{print \$5}'	
	,		
vi.	Which of the following	data types are preceded by a percent sign	1
	(%) in Perl?		
	(a) Hashes (b) Scala	r (c) Array (d) Integer	
vii.	Which command is record a user login session in a file		
	(a) Macro (b) Read	(c) Script (d) Log	
viii.	pwd command displays		1
	(a) User password	(b) Present working directory	
	(c) Password file conten	t (d) Password Reset	
	i. ii. iv. v. vi.	 i. Which of below kill coongoing process? (a) kill <application></application> (c) kill <name></name> ii. Write a command that permission. (a) ls -al *.py (c) ls -cl *.py iii. What is sed? (a) Command line interped (c) A hex editor iv. In the shell, by default, at (a) Float (b) Integed v. How to get 5th element for (a) awk '{get \$5}' (c) get '{awk \$5}' vi. Which of the following (%) in Perl? (a) Hashes (b) Scalar vii. Which command is recoond (a) Macro (b) Read viii. pwd command displays (a) User password 	ongoing process? (a) kill <application> (b) kill <process id=""> (c) kill <name> (d) None of these. ii. Write a command that will display all .py files alongwith permission. (a) ls -al *.py (b) ls -ap *.py (c) ls -cl *.py (d) ls -dp *.py iii. What is sed? (a) Command line interpreter (b) Configuration file (c) A hex editor (d) A non-interactive stream editor iv. In the shell, by default, all variables are considered and stored as (a) Float (b) Integer (c) String (d) Character v. How to get 5th element from each line from a file? (a) awk '{get \$5}' (b) awk '{print \$5}' (c) get '{awk \$5}' (d) print '{get \$5}' vi. Which of the following data types are preceded by a percent sign (%) in Perl? (a) Hashes (b) Scalar (c) Array (d) Integer vii. Which command is record a user login session in a file (a) Macro (b) Read (c) Script (d) Log viii. pwd command displays (a) User password (b) Present working directory</name></process></application>

	ix.	x. Full form of DHCP?				
		(a) Dynamic Host Configuration Path				
		(b) Directory Host Configuration Program				
		(c) Dynamic Health Configuration Protocol				
		(d) Dynamic Host Configuration Protocol				
	x. Which of the below can be used to view the routing table?					
		(a) if config (b) netstat (c) ping (d) traceroute				
Q.2	i.	What /usr/local directory contains?				
	ii.	What do you understand by Linux Kernal?				
	iii.	Explain find command with syntax and example to searching the 5				
		file by name or by extension.				
OR	iv.	Explain unzipping the files using unzip, tar and gunzip by example. 5				
Q.3	i.	Enlist the different modes when using vi editor. 2				
	ii.	Explain different types of shells available. What are the advantages	8			
		of C Shell over Bourne Shell? Also explain when should shell				
		programming/scripting not to be used?				
OR	iii.	What is loop and explain three different methods of loops in brief.				
Q.4	i.	Write a Perl program that reads a number, multiplies it by 2, and	3			
		prints the result.				
0.5	ii.	Explain any seven AWK built-in String functions by example. 7				
OR	iii.	What is subroutine in perl? Explain how to define & call a 7				
		subroutine and passing arguments to subroutine.				
Q.5	i.	What are the kinds of permissions under Linux? 4				
	ii.	Write note on Manage Group. Also explain chgrp, groupadd, and 6				
		usermod commands.				
OR	iii.	Explain step-by-step:	6			
		(a) Creating a user (b) Deleting & disabling an user.				
Q.6		Attempt any two:				
	i.	Write the step to open Network Configuration Tool. Enlist the				
		various tabs appear on the Configuration Tool dialog box.				
	ii.	Write the steps to connect with remote server using SSH.	5			
	iii.	What is DHCP and how to configure DHCP in Linux?	5			

Marking Scheme

CA5CO16 Linux Programming & Scripting

Q.1	i. Which of below kill command syntax is correct to terminate an ongoing process?(b) kill <process id=""></process>			1
	ii.	Write a command that will display all permission. (a) ls -al *.py	.py files alongwith	1
	iii.	What is sed?		1
		(d) a non-interactive stream editor	idamad and stanad as	1
	iv.	In the shell, by default, all variables are cons (c) string	sidered and stored as	1
	v.	How to get 5 th element from each line from a (b) awk '{print \$5}'	a file?	1
	vi.	Which of the following data types are preceded by a percent sign (%) in Perl? (a) Hashes		
	vii.	Which command is record a user login session (c) script	on in a file	1
	viii.	pwd command displays		1
		(b) present working directory		
	ix.	Full form of DHCP?		1
	••	(d) Dynamic Host Configuration Protocol		1
	х.	Which of the below can be used to view the routing table? (b) netstat		
Q.2	i.	User binaries, their documentation, libraries, header files, etc		2
		0.5 mark for each	(0.5 mark * 4)	
	ii.	Meaning of kerne	1 mark	3
		Feature of the kernel	2 marks	
	iii.	Syntax	1 mark	5
		Explanation	3 marks	
0.5		Two Examples (0.5 mark * 2)	1 mark	_
OR	iv.	Meaning & explanation	2 marks	5
		Examples by unzip, tar and gunzip		
		1 mark * 3)	3 marks	

Q.3	i.	Explanation of Command mode	1 mark	2
		Explanation of Insert mode	1 mark	
	ii.	Different types of shells	3 marks	8
		Advantages of C Shell over Bourne Shell	3 marks	
		Not to be used	2 marks	
OR	iii.	Loop	2 marks	8
		Different methods of loops (2 marks * 3)	6 marks	
Q.4	i.	Read	1 mark	3
		Multiply	1 mark	
		Result	1 mark	
	ii.	Built-in String functions 1 mark for each fun	nction	7
		(1 mark * 3)	3 marks	
		Distribution for each function: (1 mark * 3)	3 marks	
		Function Syntax	0.5 mark	
		Example	0.5 mark	
OR	iii.	What is subroutine in perl?	2 marks	7
		How to define and call a subroutine	3 marks	
		Passing arguments to subroutine	2 marks	
Q.5	i.	Permission	1 mark	4
		Explanation of Read	1 mark	
		Explanation of Owner	1 mark	
		Explanation of Execute	1 mark	
	ii.	Manage Group	3 marks	6
		Explanation of chgrp, groupadd, usermod c	ommands	
		(1 mark * 3)	3 marks	
OR	iii.	(a) Creating an user	3 marks	6
		(b) Deleting & disabling an user.	3 marks	
Q.6		Attempt any two:		
	i.	Step to open Network Configuration Tool	3 marks	5
		Tabs appear on the Configuration Tool dialo		
			2 marks	
	ii.	Steps to connect with remote server using S	SH.	5

Each step 1 mark (1 mark * 5)
iii. DHCP 2 marks 5
Configure DHCP in Linux 3 marks
