TEE / MHNE010401/ 2018 - 19

BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme– Master of Science in Hardware & Networking

Course Name – Network Administration and Configuration

Course Code - MHNE010401

(Semester - 1)

Time allotted:3 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

	(Multiple Choice	e Type Question)	$10 \ge 1 = 10$		
1. (i)	<i>Choose the correct alternative from the following</i> What is the administrative distance of OSPF?				
	a. 90	b. 100			
	c. 120	d. 110			
(ii)	Which algorithm is responsible for EIGRP protocols?				
	a. Dijkstra	b. Dual			
	c. Heap	d. Binary Search			
(iii)	VTP stands for?				
	a. Virtual Point Network	b. Virtual Trunk Path			
	c. Virtual Private Network	d. None of these			
(iv)	What do you use AUX port used for?				
	a. Console	b. Terminal editing			
	c. Modem	d. Backup Logging			
(v)	The Media Access Control Sub layer re	esides in which OSI layer?			
	a. Transport	b. Transport			
	c. Datalink	d. Datalink			

Full Marks : 70

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(vi)	The performance of a data communication networks depends on		
	a. The numbers of users	b. The transmission media	
	c. The hardware and software	d. All of these	
(vii)	What is simplex mode of transmission?		
	a. Data can be transmitted in one direction only	b. Data can be transmitted in one direction only	
	c. Data can be transmitted in both directions	d. Data can be transmitted in both directions	
(viii)	i) Which of the following is false concerning VLAN's?		
	a. A VLAN is a broadcast domain	b. A VLAN is a logical group of users	
	c. A VLAN is location – dependent	d. A VLAN is subnet	
(ix)	Which VTP modes will propagate VTP message?		
	a. Client and server	b. Server	
	c. Client, server and transparent	d. Transparent	
(x)	Which is an example of a hybrid protoco	1?	
	a. IGRP	b. EIGRP	
	c. OSPF	d. RIPV1	

Group – B

(Short Answer Type Questions)	3 x5 = 15
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Answer any <i>three</i> from the following	
2. What is Open System Interconnection Reference Model?	[5]
3. Define Packet Switching and Circuit Switching.	[5]
4. Define Subnetting.	[5]
5. Define Broadcast Domain and Collision Domain.	[5]
6. What are the IP address ranges for public and private address?	[5]

Group – C

(Long Answer Type Questions)	$3x \ 15 = 45$
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Ansv	wer a	ny <i>three</i> from the following	
7.	(a)	Describe the basic components of a Router.	[8]
	(b)	Explain the concept of static and Dynamic Routing.	[7]
8.	(a)	Define Link State Routing Protocols in details.	[6]
	(b)	What are the Three tables used in EIGRP?	[5]
	(c)	What is Active and Passive Routes?	[4]
9.	(a)	What is DUAL in EIGRP?	[2]
	(b)	Define VLAN.	[5]
	(c)	Define VTP Server.	[5]
	(d)	What is frame tagging?	[3]
10.	(a)	Explain the concept of CIDR.	[6]
	(b)	Explain the concept of Custom Subnetting	[6]
	(c)	Define Default Static Routing Protocol.	[3]
11.	(a)	How many subnets ids, hosts, valid hosts and valid subnets ids can be obtain from 255.255.255.0/29? What is the broadcast and network address for this	
		network?	[7]
	(b)	What is the difference between layer 2 Switching and Layer 3 switching?	[6]
	(c)	What is Switching?	[2]
