

## **BRAINWARE UNIVERSITY**

Course -M.Sc. (HN)

## **Network Administration and Configuration (MHN102)**

(Semester -1)

Tim	e allotted: 3 Hours	Full Marks: 70				
[The	figure in the margin indicates full marks. their own words a					
	Gro	oup –A				
	(Multiple Choice	Type Qu	•			
1.	Choose the correct alternative from the	following	$10 \times 1 = 10$			
•	What is the administrative distance of OSPF?					
(i)						
	a. 90	b.	100			
	c. 120	d.	110			
(ii)	What is the reason you want to use switches in your network instead of hubs?  a. They are less expensive  b. Switches are more faster than hubs at reading frames					
	c. Switches create more collision domain	d.	Switches do not forward broadcasts			
(iii)	Which algorithm is responsible for EIGRP protocols?					
(111)	a . Dijkstra		Dual			
	с. Неар	d.	Binary search			
(iv)	What is the default Administrative Distance of RIP?					
	a. 90	<b>b.</b> 1	00			
	c. 120	<b>d.</b> 1	10			
(v)	RIPV1 support					
	a. variable length subnet mask	b. 0	lo not support variable subnet mask			

c. support broadcast

d. do not support broadcast

(vi)	ISDN stands for			
	a. Internal server for digital network	b. Internal service data network		
	c. Integrated service digital network	d. Information service data network		
(vii)				
	a. Challenge Handshake Authentication Protocol	b .Channel Handshake for Access Protoco	ıl	
	b. Change Handshake for Access Private key	d. Change Handshake for Authentication Protocol		
(viii)				
	a. Virtual Trunking Protocol	b Virtual Trunk Path		
	c. VLAN Trunking protocol	d. Variable Transmission Protocol		
(ix)	PPTP is a			
	a. Peer- to- Peer Tunneling Protocol	b. Point –to –Point Tunneling Protocol		
	c. Password-Primary Tunnel Protocol	d. ALL		
(x)	VPN stands for			
	a. Virtual Point Network	b. Virtual Private Name		
	c. Virtual Private Network	d. None of there		
	Group	$_{1}$ $ R$		
	(Short Answer T			
	(Answer any <i>three</i> fr			
	` •	$3 \times 5 = 1$	15	
2.	Define Route Poisoning methodology.	[5]		
3.	Define VLSM. Explain in brief.	[5]		
4.	What is Distance Vector Routing Protocol?			
5.	What is convergence in network? Explain with proper example. [5]			
6.	Briefly describe Subnetting. [5]			

## Group-C

## (Long Answer Type Questions) (Answer any *three* from the following)

		(Answer any <i>inree</i> from the following)	
			$3x\ 15 = 45$
7.	(a)	What are the differences between RIPV1 and RIPV2?	[6]
	(b)	Define Static Routing with a neat diagram.	[6]
	(c)	Define Default Static Routing Protocol.	[3]
8.	(a)	Define major functionalities of different OSI layers in detail.	[8]
	(b)	Explain Tracert and Ping with example.	[7]
9.	(a)	Illustrate OSPF with proper example.	[5]
	(b)	Define link state routing protocol with example.	[6]
	(c)	Explain the methodology of EIGRP.	[4]
10.	(a)	Define Count to Infinity protocol and Hold down timer.	[4+3]
	(b)	How many subnet ids, hosts, valid hosts and valid subnet ids can be	
		deduced from 255.255.255.0/28? What is the broadcast and network	
		address for this network? What is CIDR?	[4+3+1]
11.	(a)	Define 'Man in the middle attack' and firewall.	[3+2]
	(b)	Write short notes on ISDN and PSTN.	[5]
	(c)	Describe the working functionalities of Nslookup and Nbstat.	[5]