

# **BRAINWARE UNIVERSITY**

# Course - MSc(HN)

# **ADVANCED NETWORKING (MHN102)**

(Semester - 1)

Tim	e allott	ted: 3 I	Full Marks: 70				
[Th	e figure	in the	margin indicates full marks. Candid their own words as far as		1		
			Group -A	1			
			(Multiple Choice Type	n) $1 \times 10 = 10$			
1)	Choose the correct alternatives of the following:						
	i)	How	many Subnets and Hosts can you get f	from the Ne	etwork 192.168.254.0/26?		
		a)	4Network with 64Hosts	b) 2	Network with 62 Hosts		
		c)	254 Network with 62 Hosts	d) 1	Network with 254 Hosts		
	ii)	Which of the following commands set the Secret password to "nopass"					
		a)	enable secret password nopass	b) enable secret nopass			
		c)	enable password nopass	d) (	enable password secret nopass		
	iii)	If yo in	ou want to delete the contents of NVRA	M reboot th	he router then what mode will have		
		a)	Privilege Mode	b)	Global Mode		
		c)	Setup Mode	d)	NVRAM Loaded Mode		
	iv)	Whic	Which Cisco IOS command can you use to see the IP routing Table				
		a) sh ip config		b) sh ip arp			
		c) sł	h ip route	d) sh ip table			

v)	Which two of the following are True regarding distance –vector and link state routing protocol							
	a) Link state sends its complete routing table out all active interfaces on periodic time interval							
	b) Distance Vector sends its complete routing table out all active interfaces on periodic time interval							
	c) Link state sends updates containing the state of their own links to all routers in the internetwork							
	d) Distance vector sends updates containing the state of their own links to all route in the internetwork							
vi)	What is the administrative distance of OSPF?							
	a)	90	b)	100				
	c)	110	d)	120				
vii)	Which Layer2 device enables high speed data exchange?							
	a)	Repeater	b)	Hub				
	c)	Switch	d)	Router				
viii)	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?							
		a) CDMA	b) CSMA	/CA				
		c) ALHOA	d) none of	f the mentioned				
ix)	What PRI Stands for?							
	a)	Primary Rate Internet	b)	Primary Rate Interface				
	c)	Packet Ratio Interchange	d)	Primary Route Information				
x) <b>V</b>	What do	es L2TP stands for?						
;	a)	Layer2 Tunneling Protocol	b)	Layer 2 Tree Protocol				
(	c)	Layer 2 Topmost Protocols	d)	Level 2 Tunneling Protocols				

### Group - B

(Short Answer Type Question)

 $3 \times 5 = 15$ 

(Answer any three)

- 2) What are interfaces of Cisco Routers and mention the function of each interface?
- 3) What is the function of Transport Layer of ISO-OSI Model?
- 4) What are Three Tables in OSPF, describe them and Function of Layer2 switching
- 5) Define Routing Loops
- 6) What is the role of SSID in wireless network?

# Group - C

(Long Answer Type Question)

 $3 \times 15 = 45$ 

(Answer and *three*)

- 7) Define VLAN and create a vlan infrastructure of six Dept. with router on a stick concept, also create Trunk mode .So design the infrastructure neatly.
  - NOTE: The examinee can take dept and network as per their choice.
- 8) Create a Subnetting of network address 192.168.10.0 and subnet mask 255.255.255.224. So find out Subnets, Hosts, valid subnets, Starting and Ending IP of each subnet. So do the necessity design for this Scenario.
- 9) Create RIP ver 1 network with network 172.16.10.0 by taking six routers and switches for 30 hosts. So do the necessity diagram and configuration for this scenario.
- 10) Create a wireless setup of 10 wireless clients by applying SSID and channel selection.