



Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

## **BRAINWARE UNIVERSITY**

Term End Examination 2022
Programme – M.Sc.(ANCS)-2021
Course Name – Routing Professional
Course Code - MNCS301
( Semester III )

	Time: 2:30 Hours			
Full Marks : 60				
[The figure in the margin indicates full marks. Candid	ates are required to give their			
words as far as	s practicable.)			
Grou				
(Multiple Choice	Type Question)			
1. Choose the correct alternative from the following	r:			
(i) The Open Shortest Path First(OSPF) protocol def	ine an intra-domain routing protocol			
based onrouting.				
	b) path vector			
a) distance vector	d) non distance vector			
c) link state	n the network are responsible for the			
(ii) The term define to which node or nodes in the network are responsible for the				
routing decision.	b) node place			
a) decision place	d) switching place			
c) routing place	•			
(iii) Define the purposes of routing, the Internet is divided into				
a) wide area networks	b) local area networks			
c) autonomous networks	d) autonomous system			
(iv) Describe the function of Router in a network?				
	b) Determines on which outing link a packet is			
<ul> <li>Forwards a packet to all outgoing links</li> </ul>	to be forwarded			
c) Forwards a packet to the next free outgoing	d) Forwards a packet to all outgoing links except			
link	the originated link			
(v) What is the size of Source and Destination IP as	(v) What is the size of Source and Destination IP address associate in IP header?			
a) 4 bits	b) 8 bits			
c) 16 bits	d) 32 bits			
(vi) EIGRP metric can be indentified in terms of				
a) K-values	b) Hop Count			
c) Bandwidth only	d) Delay only			
(vii) Explain where are EIGRP successor routes stored?				
131 d. d. d. delle cele				
a) In the routing table only				
c) In the neighbor table only	<ul> <li>d) In the routing table and the topology table</li> </ul>			

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	Open Shortest Path First (OSPF) is also determine	as	
(viii)	Open Shortest Patri III		
	a) Link state protocol	d) All of the above	
	c) Error-correction protocol  The computation of the shortest path in OSPF is t	usually calculate by	
(ix)	The computation of the short	b) Dijkstra algorithm	
11	a) Bellman-ford algorithm	n plate and vector routing	
165	c) Routing information protocol	same priority value, select what value	
¿(x)	c) Routing information protocol If routers in a single area are configured with the does a router use for the OSPF Router ID in the a	bsence of a loopback interface?	
	does a router use for the OST	b) The lowest IP address of any logical int	orface
	a) The lowest IP address of any physical	The lowest ip address of any logical int	errace
	interface	d) The highest IP address of any logical in	terface
	c) The highest IP address of any physical	500 G	terrace
	interface	ummarization, and discontiguous	
interface (xi) Which of the following protocols classify VLSM, summarization, and discontiguous			
	networking?	b) BGP	
	a) EIGRP	d) All of the above	
	c) HSRP		
(xii)	Choose the administrative distance for internal E	h) 110	
	a) 90	b) 110	
	c) 170	d) 91	
(xiii)	Choose the administrative distance for external l	EIGRA Toute is	
	a) 90	b) 110	
	-) 170	d) 100	
(xiv)	Which of the following is used to manage and m	onitor the network?	
	a) SNMP	b) IP	
	c) HTTP	d) FTP	
(xv)	Justify the reason of hold-downs used for?		
(^,,	a) To prevent regular update messages from	b) To prevent regular update messages f	rom
	reinstating a route that has come back up	reinstating a route that has gone dow	'n
	c) Information received on an interface cannot	d) To hold the routing table from being s	ent to
	be sent back out the same interface	another router	
	De sem busin out the		
	Grou	up-В	
(Short Answer Type Questions) 3 x 5=			3 x 5=15
	unlain different BGD Mossage Types?		(3)
2. E	xplain different BGP Message Types?  xplain the function of BGP TLL Security?		(3)
3. E	What is the difference between TCP and UDP?		(3)
4. V	What is the difference between a Public IP address	and a Private IP address?	(3)
5. V	What are the different types of loop prevention me	echanisms in BGP?	(3)
0. V		OR .	
14	What are different mode of configuration for BGP?		(3)
Ÿ	vilat are different mode of comparation		
	Gro	up-C	
		Type Questions)	5 x 6=30
	(Long Allower	The Guestions,	
	S. H. DODALAN AMARAM		(5)
	<ol> <li>Describe BGP Matric Attributes.</li> <li>Describe the parameters which must be matched for two routers to become neighbor in OSPF (5)</li> </ol>		
		i for two routers to become neighbor in O	3FF (3)
	with proper example.		
	9. Explain the need of Autonomous System number in BGP?		(5) (5)
	.0. Explain Virtual Gateway Redundancy in GLBP. (5) .1. Write down the short notes on BGP Neighborhood relationships? (5)		
11.	write down the short notes on A BGP Neighborh	ood relationsnips?	(5)

12. What is the purpose of the subnets keyword when redistributing OSPF?	(5)
OR  Can we use BGP instead of any IGP? Justify your answer with proper example.	
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