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	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow) M.C.A.	
	SEM: IV - THEORY EXAMINATION (2021 - 2022)	
T.	Subject: Connecting Network	00
Time:	3 Hours Max. Marks: 10	J0
 The q Section Section Section 	Instructions: Juestion paper comprises three sections, A, B, and C. You are expected to answer them as directed. Jon A - Question No- 1 is 1 marker & Question No- 2 carries 2 mark each. Jon B - Question No-3 is based on external choice carrying 6 marks each. Jon C - Questions No. 4-8 are within unit choice questions carrying 10 marks each. Jueet should be left blank. Any written material after a blank sheet will not be evaluated/checked.	
	SECTION A 20	
1. Attem	npt all parts:-	
1-a.	Open Shortest Path First (OSPF) is also called as (CO1)	1
	(a) Link state protocol	
	(b) Error-correction protocol	
	(c) Routing information protocol	
1 1	(d) Border gateway protocol	1
1-b.	The outcome of Dijkstra's calculation is used to populate the (CO1)	1
	(a) Topology table(b) Routing table	
	(c) Neighbor table	
	(d) Adjacency table	
1-c.	Which is link state vector protocol (CO2)	1
	(a) OSPF	
	(b) Frame relay	
	(c) WAN Cloud	
	(d) LMI	
1-d.	A Class A address has host bits. (CO2)	1
	(a) 8 (b) 16	
	(b) 16 (c) 20	
	(d) 24	
1-e.	Information bearing channels in ISDN are called (CO3)	1
	(a) D channels	
	(b) Data channels	
	(c) B channels	
	(d) Voice channels	
1 - f.	The data unit of ATM is (CO3)	1
	(a) Cell	
	(b) Atom	
	(c) Molecule(d) Packet	
1-g.	DTE stands for? (CO4)	1
1 5.		T

	(a) Data Terminating Equipment	
	(b) Data Terminal Equipment	
	(c) Data Transforming Equipment	
	(d) Disaster Teraforming Ergonomics	
1 -h .	Which of the following is a form of DoS attack? (CO4)	1
	(a) Vulnerability attack	
	(b) Bandwidth flooding	
	(c) Connection flooding	
	(d) All of the mentioned	
1-i.	A is a combination load balancer and application server that is a server placed between a firewall or router. (CO5)	1
	(a) ABC	
	(b) ACD	
	(c) ADC	
	(d) All of the mentioned	
1-j.	MySQL uses security based on ACL which stands for (CO5)	1
	(a) Access Control Language	
	(b) Access Control Lists	
	(c) Automatic Control Lists	
	(d) Automatic Control Language	
2. Attempt	-	
2.a.	Why is OSPF called a loop-free protocol? (CO1)	2
2.b.	What is Soft-fax and Soft-modem? (CO2)	2
2.c.	What are the types of ACLs? (CO3)	2
2.d.	How does phishing work? (CO4)	2
2.e.	Define Digital Signatures? (CO5)	2
	SECTION B 30	
3. Answer	any <u>five</u> of the following:-	
3-a.	What is your approach to connected security to prevent targeted attacks and zero-day threats? (CO1)	6
3-b.	What is the use of proxy in SNMP. Does it require only when the network has SNMP1 and SNMPV2? (CO1)	6
3-с.	What is Authentication, Confidentiality & Integrity? (CO2)	6
3-d.	Explain in detail WAN in OSI model. (CO2)	6
3.e.	State GRE characteristics? (CO3)	6
3.f.	State algorithms OSPF demands, and what is the principle behind it? (CO4)	6
3.g.	Explain in detail how to create an ACL. (CO5)	6
	SECTION C 50	
4. Answer	any <u>one</u> of the following:-	
4-a.	Differentiate between Standard ACL and Extended ACL? (CO1)	10
4-b.	Explain the algorithm used by OSPF in detail. (CO1)	10
5. Answer	any <u>one</u> of the following:-	
5-a.	Explain why do you need to establish a PPPoE internet connection? (CO2)	10
5-b.	What are the various types of communities used in BGP? Why are they used? (CO2)	10
	any <u>one</u> of the following:-	- •
6-a.	Differenciate between Asymmetric DSL and Symmetric DSL. (CO3)	10
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6-b.	Explain in detail IGP routing protocol. (CO3)	10		
7. Answer	any <u>one</u> of the following:-			
7-a.	What kind of policies and procedures need to be developed for VPN? (CO4)	10		
7-b.	Explain, If the priority of OSPF is changed to zero, what will be the result? (CO4)	10		
8. Answer any <u>one</u> of the following:-				
8-a.	What are the operational steps used when traffic has entered a router interface with an inbound standard IPv4 ACL configured? (CO5)	10		
8-b.	Explain in detail about the Wildcard Mask to Match an IPv4 Address Range. (CO5)	10		