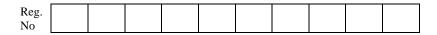
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QP Code: RJ20MCA091





## GIET UNIVERSITY, GUNUPUR - 765022

M. C. A (Third Semester) Regular Examinations, January – 2024 MCA20302 – Computer Networks

Time: 3 hrs		Maximum: 70 Marks		
(The figures in the right hand margin indicate marks.) PART-A		$(2 \times 10 = 20 \text{ Marks})$		
Q.1.	Answer <b>ALL</b> questions		CO#	Blooms Level
a.	Write five Components of a Computer Network.		CO1	K1
b.	Define IP address.		CO2	K1
c.	Define Slotted ALOHA.		CO2	K1
d.	Define is Collision Avoidance in Datalink Layer.		CO2	K2
e.	Define SSH & PGP.		CO3	K2
f.	Differentiate FTP & Telnet.		CO3	K2
g.	Define Error Correction Techniques in Transport Layer		CO1	K2
h.	Define FDDI.		CO2	K2
i.	Define DORA process.		CO2	K2
j.	Define Framing.		CO1	K1
PART – B		$(10 \times 5 = 50 \text{ Marks})$		
Ans	wer ANY FIVE questions	Marks	CO#	Blooms Level
2. a	. What is a Networking Bridge? Explain its types and uses.	5	CO2	K2
b	. Explain different types of Computer Networks.	5	CO1	K2
3. a	. Explain the OSI Model with a suitable Diagram.	5	CO1	K2
b	. Differentiate Between CSMA/CA & CSMA/CD.	5	CO2	K2
4. a	. Explain Controlled Access Protocols.	5	CO2	K2
b	. Differentiate Message Switching and Packet Switching.	5	CO2	K2
5. a	. Explain about DHCP and its Working of DHCP?	5	CO2	K2
b	. Explain types of networks Topologies.	5	CO1	K3
6. a	. Differentiate IP v4 and IP v6.	5	CO2	К3
b	. Explain Different types of Ethernet Networks and discuss the advantages and disadvantages of Ethernet Networks.	5	CO2	К3
7. a	. Differentiate Pure ALOHA and Slotted ALOHA.	5	CO2	K2

- b. What is the OSPF protocol and Mention different Types of OSPF Message 5 CO2 K3 Format.
- 8. a. Create Subnets to the IP Address is 192.168.4.0 where Subnet 1 has 60 10 CO2 K3 devices, Subnet 2 has 32 devices, Subnet 3 has 30 devices, Subnet 4 has 12 devices and Subnet 5 has 2 devices. Note each Subnet IP range, Subnet representation address, Subnet broadcast address, Host address range.

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