Seat No.\_\_\_\_

## Third Year B.C.A Examination

## Subject Code No. 8895

Paper Name & No.: Data Communication and Networking (302)

Time: 3:00 Hours Total Marks: 100

Q-1)	Answer the following Questions.	
~ -/	a) Define Network and Enlist the advantages and disadvantages of Network.	5
	b) Write a note on: Microwaves.	5
	c) Differentiate between analog and digital signals. Which is better and why?	5
	d) What is Multiplexing? What are the advantages of using Multiplexing	5
	OR	J
Q - 1)	Answer the following Questions.	
,	a) Differentiate between Guided and Unguided Communication Mediums.	5
	b) What is Channel? Explain the importance of Channel in Communication	5
	System with suitable example.	J
	c) Explain De-multiplexing in detail.	5
	d) Write a note on: Coaxial Cable.	5
	dy Write a note on. Countai Caole.	5
Q – 2)	Answer the following Questions.	
	a) Explain in Brief: Error Detection Codes at Data Link Layer.	10
	b) Write a note on: FDDI.	10
	OR	
Q – 2)	Answer the following Questions.	
	a) Explain the protocols available at Data Link Layer in detail.	10
	b) Write a note on: Satellite Communication.	10
Q-3)	Answer the following Questions.	
	a) Write a note on: Shortest Path Routing.	10
	b) What do you mean by Routing Algorithm? State the advantages of having a	10
	Routing Algorithm.	
	OR	
Q – 3)	Answer the following Questions.	
	a) Differentiate between Broadcast Routing and Multicast Routing.	10
	b) Explain various Switching Techniques used in Telephony.	10
Q – 4)	Answer the following Questions.	
	a) Write a note on: IP.	10
	b) What is Tunneling? Where and why it is used?	10
	OR	
Q – 4)	Answer the following Questions.	
	a) Explain TCP/IP Reference Model in detail.	10
	b) Differentiate among LAN, MAN and WAN.	10
		10
Q – 5)	Answer the following Questions.	
	a) Write a note on: Networking Devices.	10
	b) Write a note on: Sliding Window Protocol.	10
	OR	
Q – 5)	Answer the following Questions.	
Q 3 <sub>1</sub>	a) Explain various Public Key Algorithms.	10
	c) Write a note on: Firewall and list out any 5 names of popular firewall.	10
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