Roll N	Vo
•	GSQ/D-24 1071 COMPUTER NETWORKS BCA-354
	Three Hours] [Maximum Marks: 80] Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.
(Compulsory Question)	
(a) (b) (c) (d) (e) (f)	Protocol Frame Packet Segment Flooding NIC
(g)	Choke Packet
(h)	Cable Modem. Unit I

(a) Explain various design issues of layers in network

(b) Why Network Architecture is organized in layers?

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P.T.O.

architecture.

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Differentiate between the following: (a) Connection Oriented vs. Connection Less Services Client Server vs. Distributed Networking Models (b) (c) Hub vs. Switch vs. Router. Unit II Describe Modulation and its need. Explain various types 4. of analog modulation techniques in detail. How Guided transmission media differs from 5. (a) unguided transmission media? Which one of the two is most popular and why? (b) Explain communication satellite media in detail. 6 Unit III Write short notes on the following: 6. 4×4=16 (a)-**CRC** (b) Hamming code (c) Bluetooth (d) VLAN. What do you mean by media access control protocols? How many types of media access control protocols exists? Explain any one of them in detail. 16 Unit IV 8. Explain Link State Routing in detail. Why LSR is better

than DVR?

3.

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Define Congestion in computer network. Why (a) congestion occurs? What is the impact on computer network? How the problem of congestion can be handled in data communication? Explain traffic shaping algorithms in detail. (b)

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