

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022****Subject Code:3143201****Date:27-06-2022****Subject Name:Data Communication & Computer Networks****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) List out and explain in brief various types of transmission impairments.	03
	(b) Explain OSI Model with each Layer in Detail.	04
	(c) Explain CRC with example.	07
Q.2	(a) Differentiate circuit switching and packet switching.	03
	(b) Explain GO Back N & Selective Repeat Protocol.	04
	(c) Explain the TCP Segment structure and justify the importance of its field values.	07
	OR	
	(c) Explain distance vector routing and Link State routing with example	07
Q.3	(a) Explain Classful IP Addressing scheme for IPV4.	03
	(b) Explain ASK, FSK and PSK for digital to analog conversion	04
	(c) Write note on: Internet Control Message Protocol (ICMP)	07
	OR	
Q.3	(a) Compare UDP and TCP.	03
	(b) Differentiate between Connection Oriented Services and Connection Less Services.	04
	(c) Explain STOP and Wait and Sliding Window Protocol.	07
Q.4	(a) Write a short note on DNS.	03
	(b) Explain ALOHA in detail.	04
	(c) Explain FDDI and Token bus in detail.	07
	OR	
Q.4	(a) Discuss File Transfer Protocol in detail.	03
	(b) Explain CSMA/CD and CSMA/CA in detail.	04
	(c) Explain ATM architecture in detail.	07
Q.5	(a) Write a short note on Digital Signature.	03
	(b) Write a short note on SNMP.	04
	(c) Explain the Working of Electronic Mail Protocols in detail.	07
	OR	
Q.5	(a) Write a short note on Firewall.	03
	(b) Write a short note on HTTP.	04
	(c) Explain RSA algorithm with an example.	07

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