Roll No.:....

C022512(022)

B. Tech. (Fifth Semester) Examination, Nov.-Dec. 2021

(Computer Science & Engineering Branch)

COMPUTER NETWORK

Time Allowed: Three hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt all questions. Part (a) is compulsory & solve any two from (b), (c) & (d) of each questions. Assume any missing data. Use diagrams wherever required.

Unit-I

- 1. (a) Write a short note on network topology.
- 4
- (b) What is Switching? Explain circuit switching, packet switching and message switching.

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Unit-IV

4.	(a)	Write the functions of transport layer.	4
	(b)	Differentiate between TCP and UDP protocols.	8
	(c)	Explain UDP header format in detail.	8
	(d)	What is Congestion? How it is controlled in transport layer? Explain with example.	8
		Unit-V	
5.	(a)	What are Cookies? Explain briefly.	4
	(b)	Write short notes on:	8
		(i) Cryptography	
		(ii) Firewall	
		(iii) MIME	
		(iv) Proxy server	
	(c)	What is Email? Explain the architecture of email.	8
	(d)	What is HTTP? Explain persistent and non-persistent connection with suitable example. Explain why HTTP	
		is a stateless protocol.	8