Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (Information Technology) (Sem-4)
COMPUTER NETWORKS

Subject Code: BTIT-401-18

M.Code: 77538

Date of Examination: 07-06-2023

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

## SECTION-A

## 1. Write briefly:

- a) What is the need of Protocols?
- b) What are the advantages of Optic fiber as a transmission media?
- c) Differentiate between Pure ALOHA and Slotted ALOHA.
- d) Explain the term Hamming Distance in brief.
- e) Explain the BOOTP protocol in brief.
- f) How many bits are consumed by IPv4 and IPv6 addresses respectively.
- g) What do you mean by congestion? Also explain the cause of congestion?
- h) Explain the UDP protocol in brief.
- i) What do you mean by Domain Name Space (DNS)? Explain
- j) Explain the term HTTP.

## SECTION-B

2.	Write a detailed note on following transmission media.
	a) Twisted- pair
	b) Co-axial cable
3.	Write a detailed note on CSMA/CD.
4.	Explain in detail about RARP protocol.
5.	Write a detailed note on Token Bucket Algorithm.
6.	Write a detailed note on Firewalls.
SECTION-C	
7.	Write a detailed note on OSI Model.
8.	Write a detailed note on the following protocols:
	a) Stop & wait
	b) Go back-N ARQ
	c) Selective repeat ARQ
9.	Explain the following terms in detail:
	a) DDNS
	b) WWW
	c) Bluetooth
NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.	

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