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Roll No.

ID—8353

B. Tech. (CSE) (UTD)
EXAMINATION, 2022

(Sixth Semester)

(Batch 2019-2020)

COMPUTER NETWORKS

Code : IT-305-F

Time : 3 Hours

Maximum Marks : 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. Describe the following :	5×4=20	6. Explain Channel access methods in detail. 20
(a) Internet		7. Write short notes on the following :
(b) FTP		(a) DQDB 10
(c) Routers and Gateways		(b) ATM. 10
(d) Quality of Service.		

Unit I

2. Explain the working of OSI model with diagram. Describe the function of each layer in detail.	20
3. Define term Computer Network. Explain different types of networks in detail.	20

Unit II

4. Explain IP address classes and subnet addressing in detail. Also differentiate between IPV4 and IPV6.	20
5. (a) Differentiate between TCP and UDP. 10	
(b) Describe ARP and RARP in brief. 10	

Unit III

6. Explain Channel access methods in detail. 20
7. Write short notes on the following :
(a) DQDB 10
(b) ATM. 10

Unit IV

8. (a) Describe Remote Monitoring techniques in brief. 10
(b) Explain Proxy Servers in detail. 10
9. Explain Firewalls and VLANs in detail. 20