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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*

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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.

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**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**
- (a) Internet
  - (b) FTP
  - (c) Routers and Gateways
  - (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**