

328732(28)

**B. E. (Seventh Semester) Examination,
April-May 2021**

(New Scheme)

(Et&T Engg. Branch)

COMPUTER NETWORKS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d).

Unit-I

1. (a) Draw & explain basic communication model in brief. 2
- (b) Explain OSI Model with functionality of each layer. 7

[2]

- (c) Explain Topologies of Network in detail with suitable diagram. 7
- (d) What is the purpose of 56 K Modem? Define it with its pin structure. 7

Unit-II

2. (a) Define Data Link Layer in brief. 2
- (b) Define Stop and Wait Protocol in detail with suitable example. 7
- (c) Explain different types of Error Control Mechanism with suitable example. 7
- (d) What do you mean by Framing? Explain HDLC in detail. 7

Unit-III

3. (a) Specify two differences between thin Ethernet and thick Ethernet. 2
- (b) Explain Token Ring in detail with suitable example. 7

[3]

- (c) Explain IEEE 802.11 wireless LAN protocol with flowchart. 7
- (d) Explain the architecture of MAC in detail. 7

Unit-IV

4. (a) What is UDP? 2
- (b) Explain TCP with its header format. 7
- (c) Write short notes on : 7
- (i) ISDN
- (ii) ARP
- (d) Draw the header format of IPV4 & IPV6 in detail. 7

Unit-V

5. (a) Compare between HTTP & FTP. 2
- (b) Define various switching techniques & compare them with their diagram, working, disadvantages & advantages. 7
- (c) Explain difference layers of ATM in detail. 7

(d) Write short notes on : 7

(i) SMTP

(ii) DNS