

Roll No. ....

**3324**

**B. Tech. 6th Semester (ECE)  
Examination – May, 2023**

**COMPUTER NETWORK**

**Paper : PCC-ECE-304-G**

*Time : Three Hours ]*

*[ Maximum Marks : 75*

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

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

1. Explain the following :

2.5 × 6 = 15

- (a) DATA COMMUNICATION
- (b) REPEATER
- (c) FAST ETHERNET
- (d) ARP
- (e) DQDB
- (f) PACKET SWITCHING

**UNIT - I**

- 2. Give a complete description about ISO-OSI reference model. 15
- 3. Define Network Topology. Explain different types topologies in detail. 15

**UNIT - II**

- 4. What do you mean by CSMA ? Explain CSMA/CD and CSMA/CA with a diagram. 15
- 5. Explain IEEE802 standards in detail. 15

**UNIT - III**

- 6. Explain the IPV4 and IPV6. What is the difference between IPV4 and IPV6. 15
- 7. Explain the functions of following protocols. 15
  - (a) ICMP
  - (b) BOOTP
  - (c) IGMP

## UNIT - IV

8. (a) What do you mean by Transmission Control Protocol Header ? Explain in detail. 8
- (b) Compare and contrast TCP & UDP. Also draw headers of both. 7
9. Describe the following : 15
- (a) HTTP
- (b) WWW
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