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Roll No.

32598

B.Sc. EXAMINATION, 2025

(Sixth Semester)

(Regular & Re-appear)

COMPUTER SCIENCE

Paper-II

Computer Networks

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with 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.

1. (a) Explain various uses of computer networks.
- (b) What do you mean by data rate ?
- (c) What is firewall ?
- (d) What do you mean by DNS ?
- (e) What do you mean by Fast Ethernet ?
- (f) What is switch ?
- (g) What is Modem ?
- (h) What do you mean by wireless transmission media ? **8×1=8**

Unit I

2. Explain different types of computer networks. **8**
3. Explain the TCP/IP model in detail. **8**

Unit II

4. What do you mean by multiplexing ? Explain the types of multiplexing. **8**

5. Explain the following : **8**
 - (a) Guided transmission media
 - (b) Modulation

Unit III

6. Explain sliding window protocols in detail. **8**
7. (a) Explain Slotted ALOHA in detail. **4**
 - (b) Explain CSMA in detail. **4**

Unit IV

8. What do you mean by routing ? Explain different types of routing in detail. **8**
9. Explain the following : **8**
 - (a) Digital Signatures
 - (b) E-mail and WWW services

