

Code No: E- 5204/O/BL/AICTE

FACULTY OF ENGINEERING

B.E. (CSE) VI – Semester (AICTE) (Backlog) (Old) Examinations, September/October 2023

Subject: Computer Networks

Time: 3 Hours

Max. Marks: 70

(Missing data, if any, may be suitably assumed)

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. What is meant by Computer Network?
2. Define Data Communication.
3. List and give examples of types of transmission impairments.
4. Define redundancy concept in error detection.
5. Differentiate synchronous transmission from Asynchronous transmission.
6. What do you mean by congestion?
7. Define Fragmentation
8. Give the format of DNS resource record.
9. What is a Socket?
10. What is cryptography?

PART – B

Note: Answer any five questions.

(5 x 10 = 50 Marks)

11. (a) Briefly Explain about the duties of each TCP/IP layer.
(b) Explain CSMA/CD Technique.
12. (a) Explain how the select repeat ARQ techniques can be handle different specific cases on contingencies.
(b) Explain frame format of IEEE 802.3 Ethernet LAN.
13. (a) Differentiate different switching techniques.
(b) Briefly discuss about Quality of service?
14. (a) Distinguish between leaky bucket algorithm and token bucket algorithm.
(b) Compare Link state routing and distance vector routing.
15. (a) Distinguish between connection-oriented and connection-less service.
(b) Explain in detail TCP and Segment Header.
16. (a) Discuss the operation and architecture of SNMP.
(b) Explain the working principle of symmetric-key algorithm in detail (DES).
17. Write short notes on:
 - (a) OSPF
 - (b) Bluetooth architecture
