

Seat No. **MAR_APR 2025 SUMMER EXAMINATION****11731 Bachelor of Technology (NEP-2.0)****Sub. Name: Computer Networks****Sub. Code: 83825/84051****Day and Date: MAY ,07-05-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM****Instructions: 1. Draw neat labelled diagrams wherever necessary
2. Figures to the right indicate full marks****Q1) Solve following MCQ.****[14]**

- i. Each IP packet must contain
- A. Only Source address
 - B. Only Destination address
 - C. Source and Destination address
 - D. Source or Destination address
- ii. TCP and UDP are _____ layer protocols.
- A. Data link
 - B. Transport
 - C. Network
 - D. None of above
- iii. Distance Vector Routing Protocol is of _____ layer.
- A. Network
 - B. Data link
 - C. Physical
 - D. None of above
- iv. _____ provides a connection-oriented reliable service for sending messages.
- A. UDP
 - B. IP
 - C. TCP
 - D. All of mentioned
- v. Addresses are mostly present in _____ part of frame.
- A. Trailer
 - B. Data
 - C. Header
 - D. None of above
- vi. _____ provides user interface

- A. Application layer
- B. Session layer
- C. Transport layer
- D. Data Link layer

vii. The network layer protocols are _____

- A. ICMP
- B. IGMP
- C. RARP
- D. All of above

Q2) Attempt any TWO

[14]

- i. Explain OSI reference model in detail.
- ii. What are the draw backs of stop and wait protocol? How can they overcome by sliding window protocol.
- iii. Explain HDLC frame format in detail.

Q3) Attempt any TWO

[14]

- i. What is the significance of data link layer? Explain the design issues of data link layer.
- ii. Explain network devices in detail.
- iii. With an example explain the Dynamic routing algorithms used in computer networks.

Q4) Attempt any TWO

[14]

- i. Discuss about the header format of UDP.
- ii. What is multimedia? Explain in detail about voice over IP?
- iii. What is World Wide Web? Explain details about HTTP.

Q5) Attempt any TWO

[14]

- i. Write a note on SMTP.
- ii. Explain in detail ARP AND RARP
- iii. Explain the structure of TCP Header format.

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (1154) B.Tech. CBCS (83825) Computer Networks Part 4 SEM 7

2] (101) Bachelor of Engineering (84051) Computer Networks Part 4 SEM 7