Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

1154 B.Tech. CBCS

Sub. Name: Computer Networks

Sub. Code: 83825/84051

Day and Date: Saturday ,16-05-2026 **Total Marks: 70**

Time: 10:30 AM To 01:00 PM

Instructions:
1. **All questions are compulsory**
2. **Assume suitable data wherever necessary and mention it boldly**
3. **Draw neat labelled diagrams wherever necessary**
4. **Figures to the right indicate full marks**

Q1) Attempt following Multiple choice questions.....[7*2=14 marks] **[14]**

a. Transport layer protocols deals with _____. **[2]**

a. application to application communication
b. process to process communication
c. node to node communication
d. man to man communication

b. In _____, each station sends a frame during assigned time interval. **[2]**

a. slotted ALOHA
b. pure ALOHA
c. CSMA
d. CSMA/CD

c. What is the address size of IPv6? **[2]**

a. 32 bit
b. 64 bit
c. 128 bit
d. 256 bit

d. What is the theoretical size of Network bits & Host bits of Class A of IP address? **[2]**

a. Network bits 7, Host bits 24
b. Network bits 8, Host bits 24
c. Network bits 7, Host bits 23
d. Network bits 8, Host bits 23

e. Which of the following are transport layer protocols used in networking? **[2]**

a. TCP and FTP
b. UDP and HTTP
c. TCP and UDP
d. HTTP and FTP

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f. SMTP uses which of the following TCP port? **[2]**

a. 21
b. 22
c. 23
d. 25

g. _____ is the special protocol designed to handle real-time traffic on internet. **[2]**

a. TCP
b. ARP
c. RTP
d. None

Q2) Attempt any two of the following questions.....[2 × 7 = 14] **[14]**

a. What is network topology? Draw & explain various topologies? **[7]**

b. Explain with neat sketch stop and wait ARQ protocol? **[7]**

c. Explain DHCP basic messages with neat diagram? **[7]**

Q3) Attempt any two of the following questions .....[2 × 7 = 14] **[14]**

a. Draw TCP/IP reference model and explain in brief function of each layer? **[7]**

b. Draw a frame format of IEEE 802.3 & explain each field? **[7]**

c. Explain Header format of IPv4? **[7]**

Q4) Attempt any two of the following questions .....[2 × 7 = 14] **[14]**

a. Explain in detail header format of UDP? **[7]**

b. Write short note on SMTP? **[7]**

c. Explain in detail Real-time transport protocol (RTP)? **[7]**

Q5) Attempt any two of the following questions .....[2 × 7 = 14] **[14]**

a. Explain different types of TCP timers? **[7]**

b. Explain Domain Name System in detail? **[7]**

c. What is multimedia? Explain in detail about voice over IP? **[7]**

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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

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