Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

11731 Bachelor of Technology (NEP-2.0)

Sub. Name: Computer Network

Sub. Code: 119690/116017

Day and Date: Saturday ,23-05-2026 **Total Marks: 60**

Time: 10:30 AM To 01:00 PM

Instructions: **1. All questions are compulsory**
2. Draw neat labelled diagrams wherever necessary
3. Figures to the right indicate full marks

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Q1) Solve following MCQ. **[12]**

i. Which type of network is used for small geographical area such as in a one building?

A. LAN
B. MAN
C. WAN
D. PAN

ii. _____transmission media provides the highest transmission speed in a network.

A. coaxial cable
B. twisted pair cable
C. optical fiber
D. electrical cable

iii. In the _____Protocol, if no acknowledgment for a frame has arrived, we resend all outstanding frames.

A. Stop-and-Wait ARQ
B. Selective-Repeat ARQ
C. Go-Back-N ARQ
D. None

iv. _____ is the default subnet mask of Class C IP address.

A. 255.0.0.0
B. 255.255.0.0
C. 255.255.255.0
D. 0.255.255.255

v. Which transport layer protocol is connection-oriented?

A. UDP
B. TCP
C. IP

D. HTTP

vi. FTP uses how many TCP connections?

A. 1
B. 2
C. 3
D. 4

Q2) Attempt any two of the following questions: **[12]**

a. Compare LAN, MAN, WAN? **[6]**

b. With neat diagram explain working principle of router? **[6]**

c. Draw a frame format of IEEE 802.3 & explain each field? **[6]**

Q3) Attempt any two of the following questions : **[12]**

a. Explain Distance Vector Routing with suitable diagram? **[6]**

b. Explain in detail different types of TCP Timers? **[6]**

c. What is DNS? Explain DNS Resolving process? **[6]**

Q4) Attempt any two of the following questions : **[12]**

a. With neat diagram explain DHCP basic messages? **[6]**

b. What is 3-way handshake in TCP? Discuss three way handshaking process in TCP with suitable diagram? **[6]**

c. Write short note on FTP? **[6]**

Q5) Attempt any two of the following questions : **[12]**

a. Explain in detail Classful IP addressing? **[6]**

b. Draw & explain Header format of UDP? **[6]**

c. Explain with block diagram SMTP Model? **[6]**

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.

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1] (11731) Bachelor of Technology (NEP-2.0) (116017) Computer Network Part 2 SEM 4

2] (1154) B.Tech. CBCS (119690) Computer Network Part 2 SEM 4

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