



RAN-2511001005055001

T.Y.B.Sc. Computer Science (NCF-NEP) Examination October - 2025

Minor - CS-502 : Computer Network

Time: 2 Hours]
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q-1. (A) Answer the followings.
[05]

- Which of the following can concurrently provide and request services?
 - Server
 - Client
 - Peer
 - None of these
- Twisted pair cable belongs to _____ transmission media.
 - Unguided
 - Guided
 - Wireless
 - Free space
- Which of the following is not a type of data transmission mode?
 - Simplex
 - Full-simplex
 - Half-duplex
 - Full-duplex
- Identify the full form of HTTPS?
 - Hyper Text Transfer Protocol Standard
 - Hyper Text Transfer Package Service
 - Highlevel Text Transfer Protocol Service
 - Hypertext Transfer Protocol Secure
- Which of the following is true for protocol?
 - Protocols are the signal transmitted across networks.
 - Protocols are resources shared among network nodes.
 - Protocols are the agreed upon rules for devices to exchange information.
 - None of the above

(B) Answer the followings in short. (Any Four)
[08]

- Full-duplex is better than half-duplex. Justify it.
- What is Logical address?
- Define routing. Compare static and dynamic routing.
- Distinguish Subnetting and Supernetting.
- What do you mean by API call?

Q-2. Answer the following questions in detail.

- (A) What do you mean by transmission media? Give types of transmission media. Explain twisted pair cable with their advantages and disadvantages.

[08]
OR

- (A) What do you mean by topology? Explain star topology and mesh topology with their advantages and limitations.

[08]

(B) Write a detailed note on TCP/IP reference model. [05]

Q-3. Answer the following in detail. (Any Two) [12]

- (A) Compare ARP and RARP in detail.
- (B) Define frequency. Explain FDM and TDM in detail.
- (C) Write a note on working of Datalink layer in OSI model.

Q-4. Answer the following in detail. (Any Two) [12]

- (A) Write a detailed note on different types of switching techniques.
 - (B) Discuss intrusion detection system&intrusion prevention system with their significance.
 - (C) Write a note on DNS.
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