

B.SC(IT) SEMESTER - 5 (REMEDIAL) (NEP-2020) Examination**March/April-2026****Computer Networks and Communication Protocols (Major-13)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer any two: (10)
1. List various Network Topologies. Explain any one in detail
 2. Give full form : TCP, UDP, HTTP, FTP, DHCP
 3. List and explain various layers of OSI
 4. Write a short note on : DNS hierarchy
- Que.2 Answer any two: (10)
1. Explain concept and usefulness : UTP
 2. State the reasons and importance of color coding
 3. What is signal degradation? How can it be minimized?
 4. List and explain various Structured cabling standards
- Que.3 Answer any two: (10)
1. Differentiate between IPv4 and IPv6
 2. What is Static IP? Differentiate between DHCP and Static IP
 3. Write in detail : MAC Addressing
 4. What is subnetting? Explain with example how it is done
- Que.4 Answer any two: (10)
1. Write a short note : Wi-Fi Technology
 2. Explain the concept and usefulness of QoS
 3. Write a note on VPN
 4. Explain various types of security threats
- Que.5 Answer any two: (10)
1. List and explain various Network Standards and Bodies
 2. Write a note on various cable distance limitations
 3. Explain in details : ICMP
 4. What is Wi Fi Analyzer? Where it is useful?
