



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Programme 3rd Semester Examination, 2023

DSC1/2/3-P3-COMPUTER SCIENCE
COMPUTER NETWORKS

Time Allotted: 2 Hours

Full Marks: 60

The figures in the margin indicate full marks.

GROUP-A

Answer any *four* questions

3×4 = 12

1. What are the two types of protocols used in Transport Layer? Describe briefly.
2. List the three types of addresses in TCP/IP.
3. What is the function of transmission media?
4. Explain router with its usage.
5. Differentiate between Half-duplex and Full-duplex.
6. Differentiate between analog and digital signals.

GROUP-B

Answer any *four* questions

6×4 = 24

7. How is Cat5 cable better than Cat3? Justify.
8. Describe different wireless signalling techniques.
9. What is CSMA? List the protocols used with CSMA.
10. Discuss the different protocols present in TCP/IP reference model.
11. Compare different network switching techniques.
12. Compare IPv4 and IPv6 addressing.

GROUP-C

Answer any *two* questions

12×2 = 24

13. Explain in detail any one error detection cum correction Technique.
14. Discuss connection-oriented virtual circuit switching with the help of examples.
15. Discuss different types of topologies with their advantages and limitations.
16. Discuss OSI reference model.

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