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III Semester B.C.A. 6 (NEP) Degree Examination, March/April - 2024
COMPUTER COMMUNICATION AND NETWORKS
(Regular/Repeater)

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates :

- 1) Draw neat diagrams wherever necessary.
- 2) All sections are compulsory.

SECTION - A**I. Answer any TEN of the following.****(10×2=20)**

1. Define protocol. Name the key elements of a protocol.
2. List the layers of TCP/IP reference model.
3. Define transmission media.
4. Define multiplexing. List the types of multiplexing techniques.
5. Name the two sub-layers of Data Link layer.
6. Define an error. List types of errors.
7. State optimality principles of routing.
8. Define flooding.
9. Define Congestion.
10. List the elements of transport layer service.
11. Define piggybacking
12. Define www.

SECTION - B**II. Answer any FOUR of the following.****(4×5=20)**

13. Explain Radio transmission and Infrared transmission.
14. Explain GO-Back N and selective repeat sliding window protocol.

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15. Explain CRC with example.
16. Explain Link state routing algorithm.
17. Define Email. Explain the components of Email.

SECTION - C

III. Answer any TWO of the following.

(2×10=20)

18. Define switching. Explain Message switching technique in detail.
 19. a) Explain any three types of network topologies (6)
b) Explain token bucket algorithm. (4)
 20. a) Explain features of TCP. (4)
b) Explain TCP header format. (6)
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