21CSC3G1BL

Sl. No.

M.Sc. III Semester Degree Examination, April/May - 2024
COMPUTER SCIENCE
Computer Networks and Internet Technologies
(NEP)

Time : 1 Hour   Maximum Marks : 30

Note : *Answer **all** the sections.*

SECTION - A

1.   Answer **all** the following questions. Each question carries **one** mark.   **5x1=5**
   (a)   Expand WAN.
   (b)   Expand MODEM.
   (c)   Which transmission media is commonly used for computer networking besides copper wires ?
   (d)   What technique is used for probing the internet to gather information about network connectivity ?
   (e)   Name two common types of networks.

SECTION - B

Answer **any five** of the following questions. Each question carries **two** marks.   **5x2=10**

2.   Define the terms : Half-duplex and Full-duplex.

3.   Describe the roles and functions of network devices such as routers, switches, and modems.

4.   Compare the advantages of using copper wires and glass fibres as transmission media in computer networking.

5.   Explore the role of data reliability in guaranteeing the accurate delivery of information from a sender to a receiver.

6.   List out components of communication system.

7.   Enlist advantages and disadvantages of mesh topology.

8.   Write a short note on ping command.

SECTION - C

Answer **any three** of the following questions. Each question carries **five** marks.

3x5=15

9. Discuss the various types of transmission media used in networking and telecommunications, highlighting their characteristics, advantages, and limitations.

10. Write a note on Spread Spectrum.

11. Write a note on TCP/IP.

12. How to register a web site on internet.

13. Explain the different types of network topologies.

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