



CB – 217

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VI Semester B.A./B.Sc. Examination, August/September 2023
(CBCS) (F+R) (2016 – 17 and Onwards)
COMPUTER SCIENCE – VIII
Computer Networks

Time : 3 Hours

Max. Marks : 70

Instruction : Answer **all** Sections.

SECTION – A

I. Answer **any ten** of the following. **Each** question carries **two** marks. (10×2=20)

- 1) Define computer network.
- 2) What is MODEM ?
- 3) Mention the difference between Half Duplex and Full Duplex mode of transmission.
- 4) Explain bit shifting.
- 5) Define topology. Mention its types.
- 6) What is CSMA/CD ?
- 7) What is Burst Error ?
- 8) Mention the purpose of Network Interface Card.
- 9) Define protocol. Mention any two protocols.
- 10) What is subnet mask ? Specify the subnet mask for A, B, C IP Address.
- 11) What is the limitation of IPv4 protocol ? How to overcome it ?
- 12) What is a web browser ? Mention any 2 web browsers.



SECTION – B

- II. Answer **any five** of the following. **Each** question carries **ten** marks. (5×10=50)
- 13) a) List the advantages of computer networks. (5+5)
b) Explain different physical media used in networking.

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- 14) a) Explain different types of topologies. (6+4)
b) What is transmission error ? What causes it ?
- 15) a) Explain different switching techniques. (5+5)
b) Explain error detection with cyclic redundancy check.
- 16) a) Define the term Baud rate. Mention the ways of configuring the Baud rate. (6+4)
b) Explain wavelength division multiplexing.
- 17) Explain OSI model. 10
- 18) a) Explain Dijkstra's shortest path algorithm with an example. (7+3)
b) Differentiate LAN and WAN.
- 19) a) Compare static and dynamic routing. (6+4)
b) Explain general format of IP routing.
- 20) a) Write a note on World Wide Web. (5+5)
b) Compare IPv4 and IPv6.


