

D 130204

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—U.G.) DEGREE EXAMINATION
NOVEMBER 2025**

Information Technology

BIT 5B 08—COMPUTER NETWORKS

(2019 Syllabus)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Each correct answer carries a maximum of 2 marks, Ceiling 20 marks.*

1. What are the different types of computer network ?
2. What are the switching techniques in computer network ?
3. What is Ethernet and its standards ?
4. Differentiate between single bite error and burst error.
5. What are the different types of flow control and its types ?
6. What is meant by circuit switching ?
7. Explain the different types of network topologies.
8. What is meant by polling ?
9. Explain Hamming.
10. What are the different types of protocols in computer network ?
11. What is domain name in network ?
12. What is CSMA with Collision detection algorithm ?

Turn over

Section B (Ceiling 30 Marks)

Each question carries 5 marks.

13. What is the advantage of using slotted Aloha over pure Aloha ?
14. Explain the functions of sublayers of datalink layer.
15. What is the difference between serial DCE and DTE ?
16. Explain the different network architecture types with example.
17. What are the error correction techniques ?
18. What is Link state routing ?
19. Explain the main difference between IPv4 and IPv6 ?

Section C (10 Marks)

*Answer any **one** question.*

20. Explain the Dijkstra Routing algorithms in network.
22. Explain the different types of layered network models.