

19U427

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Name:

Reg.No:

FOURTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2021

(CBCSS - UG)

CC19U BCS4 A13/CC19U BCA4 A13 - DATA COMMUNICATION AND OPTICAL FIBERS

(Common Course)

(2019 Admission - Regular)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Define point to point line configuration.
2. What do mean by modulaion.
3. Define modem.
4. Define tranmission impairment.
5. Explain cellular system.
6. What is GSM?
7. Explain framing.
8. List down the link access procedures.
9. Explain Ethernet.
10. Write short note on message switching.
11. List down the benefits of optical fibre communication.
12. Expalin optical detectors.
13. Define Ray theory.
14. Explain single mode fibre.

15. Explain mode field diameter.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

Answer *all* questions. Each question carries 5 marks.

16. Write about Protocol and Standards
17. Different methods for Digital signal transmission.
18. Explain multiplexing.
19. Write about Frequency Division Multiplexing.
20. Explain the concept of token bus.
21. What do you mean by Circuit Switched Network.
22. List the uses of optical fiber.
23. Explain optical fibre waveguides.

(Ceiling: 35 Marks)

Part C (Essay questions)

Answer any *two* questions. Each question carries 10 marks.

24. Explain the basic components and concepts of data communications.
25. Explain and write down the advantage and disadvantages of different types of topologies in network.
26. What are the characteristics of GSM. With neat diagram explain GSM system Architecture.
27. Write a short note on data link layer. Also explain Flow control and error control.

(2 × 10 = 20 Marks)
