

21U411

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Name:

Reg.No:

FOURTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

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

(Computer Science / Computer Application - Common Course)

(2019 Admission onwards)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

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

1. Define Simplex.
2. What do you mean by modulation?
3. Define cable modems.
4. Explain noise.
5. Write down the applications of multiplexing.
6. Write down the advantages of GSM .
7. Explain framing.
8. List down the link access procedures.
9. Explain LAN.
10. Explain ISDN.
11. Give an overview on optical fibre communication.
12. Define Refraction.
13. Define photo detectors.
14. Explain single mode fibre.
15. Define mode field diameter.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

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

16. Explain the basic concept line configuration.
17. Different methods for Digital signal transmission.

18. What is Multiplexing and explain different types of Multiplexing?
19. Write about Wavelength Division Multiplexing.
20. Write about Circuit Switched Network.
21. Write about Virtual Circuit Network.
22. What is the necessity of cladding for an optical fiber?
23. What are the applications of optical fibre communication?

(Ceiling: 35 Marks)

Part C (Essay questions)

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

24. Write down the basic components and concepts of data communications.
25. Explain the different topologies with neat diagram.
26. Define GSM. Explain the GSM system Architecture.
27. What do you mean by Data link Control? Explain flow control and error control.

(2 × 10 = 20 Marks)
