

QP CODE: 21100010



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Name :

B.Sc/BCA DEGREE (CBCS) EXAMINATION, FEBRUARY 2021

Fifth Semester

Core Course - CS5CRT12 - COMPUTER NETWORKS

 ${\it B.Sc\ Information\ Technology\ Model\ III\ ,\ Bachelor\ of\ Computer\ Application}$ ${\it 2017\ Admission\ Onwards}$

EEB4C569

Time: 3 Hours Max. Marks: 80

Part A

Answer any ten questions.

Each question carries 2 marks.

- 1. Why composite signal is always used in data communication?
- 2. What do you mean by coding?
- 3. What is meant by FDM? Which are the applications of FDM?
- 4. Differentiate ground propagation and line of sight propagation.
- 5. What is the purpose of routing table in datagram network?
- 6. Differentiate flow control and error control in Data link layer.
- 7. Data Link layer can be considered as two sublayers. Briefly explain the function of each sublayer.
- 8. What is scatternet?
- 9. What is jumbo payload?
- 10. What are segments?
- 11. Define Jitter.
- 12. Define request line and and status line.

 $(10 \times 2 = 20)$

Part B

Answer any six questions.

Each question carries 5 marks.

- 13. Define topologies.
- 14. What do you mean by amplitude modulation?
- 15. Explain the data communication using datagram switching with a neat diagram.



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- 16. Explain character oriented protocols used in variable size framing.
- 17. Explain simplex protocol in noiseless channels.
- 18. Differentiate classful and classless addressing schemes.
- 19. Explain each subfield of an IPv6 unicast address.
- 20. Explain advantage and disadvantage of firewalls.
- 21. Explain substitution cipher with example.

 $(6 \times 5 = 30)$

Part C

Answer any two questions.

Each question carries 15 marks.

- 22. Express TCP IP Protocol Suite architecture.
- 23. What is spread spectrum? Explain different spread spectrum techniques in detail.
- 24. Explain Cellular Telephony. Write notes on (i)base station (ii) mobile switching center (iii) frequency reuse principle (iv) Hand off.
- 25. Explain any three connecting devices in detail.

 $(2 \times 15 = 30)$

