QP CODE: 21100010

21100010

Reg No : .....

Name : .....

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

Fifth Semester

Core Course - CS5CRT12 - COMPUTER NETWORKS

B.Sc Information Technology Model III , Bachelor of Computer Application

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.

(10×2=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.

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.

(6×5=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.

(2×15=30)