BSc/BCA DEGREE (CBCS) EXAMINATION, OCTOBER 2019

Fifth Semester

Core Course - CS5CRT12 - COMPUTER NETWORKS

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

2017 Admission Onwards)

77F49B37

Maximum Marks: 80   Time: 3 Hours

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Write a note about bit length and bit rate

2. Define PCM

3. What is meant by interleaving in multiplexing?

4. Which are the principles used in spread spectrum?

5. Which are the different connectors used for twisted pair and coaxial cables?

6. Distinguish between forward error correction versus error correction by retransmission.

7. What is the difference in the format of unicast address,multicast address and broadcast address .

8. What is GSM?

9. Differentiate router and bridge.

10. Define TTL.

11. Briefly explain stream delivery serve in TCP.

12. Hierarchical name space in DNS

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Which are the data representation methods used in data communication?

14. What is the function of layered architecture?

15. Which are the different propagation modes in optical fiber?

16. Explain Stop and wait Automatic Repeat Request protocol in noisy channel.

17. Minimum frame size is important in CSMA/CD.Explain

18. Briefly describe the Hexadecimal colon notation of an IPv6 address.

19. Distinguish between window policy and acknowledgement policy

20. Explain the different section of Domain Name Space

21. Explain ASymmetric cryptography

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Which are the transmission modes used in computer network data Communications with example

23. Explain about packet switching.

24. Explain byte stuffing and bit stuffing with suitable example.

25. Explain classless addressing in IPv4. What are the advantages of classless addressing.

(2×15=30)