QP CODE: 22103369

22103369

Reg No : .....

Name : .....

B.Sc/BCA DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, NOVEMBER 2022

Fifth Semester

CORE COURSE - CS5CRT12 - COMPUTER NETWORKS

Common for B.Sc Information Technology Model III & Bachelor of Computer Applications

2017 Admission Onwards

3EB0FE48

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What do you mean by topology?
2. Define the term quantization.
3. What are guard bands?
4. Which are the main spread spectrum techniques?
5. What is meant by spread spectrum?
6. Explain CSMA.
7. Explain functions of the MAC sublayer.
8. What is cellular telephony?
9. What are the features of IPv6 address as compared to IPv4?
10. What is flow label?
11. What is back pressure?
12. Deine firewalls.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. What is the function of data link layer and network layer?

14. Define the term about transmission impairments.

15. What are the features of circuit switched network?

16. What is a cyclic code? Explain the working of Cyclic Redundancy Check(CRC) code.

17. Explain bit oriented protocols used in variable size framing.

18. Differentiate between repeaters and amplifiers.

19. Differentiate between subnetting and supernetting.

20. Explain different type of headres in HTTP protocol.

21. Explain DNS.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Define digital to analog transmission.

23. Explain the data communication in virtual circuit network in detail.

24. The most important responsibiity of data link layer are flow control and error control.Discuss how this is achieved in noiseless channels and noisy channels.

25. What is connection-oriented services? Explain TCP in detail.

(2×15=30)