TB245833X

Reg. No :.....

Name :.....

BACHELOR'S DEGREE (C.B.C.S.) EXAMINATION, FEBRUARY 2024

2021 ADMISSIONS SUPPLEMENTARY (SAY)

SEMESTER V - SKILL B. Voc. Software Development

VSD5S06B18 - Computer Networks

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. List out the noise impairments .
2. Define Computer Networks.
3. Differentiate analog and digital signals.
4. Name different unguided medias for data transmission.
5. Explain the purpose of cladding in an optical fiber.
6. Name the three propagation methods of unguided signals .
7. Perform XOR operations on the following set of data a. 1011 and 1100. b. 1100001 and 100001
8. What is an error ? Explain the types of errors?
9. What is internet?
10. Explain multicast routing ?
11. What is Encryption and Decryption ?
12. What is country domains ?

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Differentiate transmission modes half duplex and full duplex.
14. Discuss the different propagation modes in optical fiber media
15. Explain Frequency Hopping Spreading Spectrum technique.
16. Define Hamming Distance
17. Explain the CSMA/CD in detail.
18. Briefly explain the leaky bucket algorithm.
19. Point out the design issues of Network layer.
20. Explain the following application layer protocols. 1. SMTP 2. FTP
21. Explain address space?

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. Briefly explain the uses of Networks. Explain in details of OSI reference Model with a neat diagram.
23. Briefly explain different Error Detecting techniques with examples.
24. Discuss Logical addressing IPV4 and IPV6 in detail.
25. Discuss RSA public key algorithm in detail.