

TB206265W

Reg. No : .....

Name : .....

**B. Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023**  
**(2020 Admission Regular, 2019, 2018 Admissions Supplementary)**  
**SEMESTER VI - CORE COURSE ( COMPUTER APPLICATIONS)**  
**CA6B11B18 - COMPUTER NETWORK**

Time : 3 Hours

Maximum Marks : 80

**Part A**

**I. Answer any Ten questions. Each question carries 2 marks**

**(10x2=20)**

1. What is attenuation?
2. Define Data Communication.
3. What is the relation between period and frequency ?
4. What is the purpose of cladding in an optical fiber?
5. Name different unguided medias for data transmission.
6. What is the significance of the twisting in twisted pair cable ?
7. Assuming even parity, find the parity bit for each of the following data unit using simple parity check. a. 10110 b. 11011011
8. What is pipelining in sliding window protocols.
9. Explain EGP?
10. What is Jitter control?
11. What do you mean ciphers
12. What is Encryption and Decryption ?

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Discuss the different components of a data communication and computer Networks.
14. Explain Direct Sequence Spread Spectrum technique.
15. Explain FDM with a neat diagram.
16. Explain CDMA
17. Explain the concept of ALOHA protocols ?
18. Explain shortest path routing algorithm?
19. Explain the token bucket algorithm in congestion control ?
20. Explain Email system in detail ?
21. Define DNS .Explain in detail.

**Part C**

**III. Answer any Two questions. Each question carries 15 marks**

**(2x15=30)**

22. Briefly explain the uses of Networks.
23. Briefly explain different Error Detecting techniques with examples.
24. Discuss Logical addressing IPV4 and IPV6 in detail.
25. Discuss design issues of Application layer.