



QP CODE: 25020847



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

CORE COURSE - EL6CRT18 - COMPUTER NETWORKS

Common for B.Sc Electronics Model III & B.Sc Electronics and Computer Maintenance Model III

2017 Admission Onwards

47A2C60F

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is computer networks?
2. What is a peer-to-peer process?
3. Highlight the characteristics of datagram network.
4. Define cyclic codes.
5. Define byte stuffing.
6. Explain why collision does not happen in controlled access protocols.
7. What are the functions of router?
8. Ipv64 have -----bit Addresses.
9. What is IRP ?
10. What is UDP ?
11. What is E-mail ?
12. What is meant by plaintext in cryptography ?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Compare simplex, half duplex and full duplex schemes in data transmission.





14. Discuss the effects of attenuation, distortion and noise on transmission of data over communication networks.
15. Explain various unguided media.
16. Write about Simplex protocol.
17. Write about CSMA/CA protocol.
18. Explain briefly about CDMA.
19. Briefly explain the functions of Network Layer .
20. What are the functions of Application layer?
21. Explain File Transfer Protocol.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the characteristics and components of data communication.
23. Which are the three multiplexing techniques used in networks? Explain.
24. Discuss the following datalink protocol: (1) Stop-and-Wait ARQ (2) Go-Back-N ARQ.
25. Explain Static and Dynamic Routing Algorithm.

(2×15=30)

