

**Q.P. Code – 42640**

**Sixth Semester B.Sc. Degree Examination, September 2020**

*(CBCS Scheme)*

**Computer Science**

**COMPUTER NETWORKS**

*Time : 3 Hours]*

*[Max. Marks : 90*

*Instructions to Candidates : Answer all Sections.*

**SECTION – A**

I. Answer any **TEN** questions :

**(10 × 1 = 10)**

1. What is Data Communication?

2. Mention any two protocols.

3. What is domain name?

4. Mention any two components of computer network.

5. What is Error-Control?

6. Mention any two error detecting techniques.

7. What is Network ID?

8. What do you mean by FTP?

9. Define Bandwidth.

10. What is IP Addressing?

11. Define wireless communication.

12. What is datagram?

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### SECTION - B

(5 × 3 = 15)

II. Answer any **FIVE** questions :

13. What is Computer Network? Mention its applications.
14. How Client-Server Model works? Explain.
15. Explain Hamming Codes.
16. How Remote login occurs?
17. Explain Multiplexing.
18. What is URL? Explain.
19. Explain types of ARP.

### SECTION - C

(6 × 5 = 30)

III. Answer any **SIX** questions :

20. Mention the components of computer networks. Explain.
21. Write the difference between IPV4 and IPV6.
22. Discuss Go-Back N Protocol.
23. What is routing? Explain the structure of a router.
24. Explain SMTP.
25. Explain quality of services.
26. Explain fifth generation mobile communication.
27. Mention types of wireless communication protocols. Explain any two.



SECTION – D

IV. Answer any **FIVE** questions :

(5 × 7 = 35)

28. Explain Topologies.
29. Write a detailed note on TCP/IP reference model and also compare TCP/IP and OSI reference model.
30. Explain connection establishment in case of Transport layer.
31. Write a note on Twisted pair and coaxial cable.
32. Explain the classification of IP addressing.
33. Write a note on :
  - (a) Stop and Wait ARQ
  - (b) Selective Repeat ARQ
34. Explain wired and wireless network.

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