

**B.Sc. DEGREE EXAMINATION —  
DECEMBER, 2019.**

**Third Year**

**Computer Science**

**TCP / IP PROGRAMMING**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer Any FIVE questions.**

1. Write a note on difference between the TCP and UDP.
2. Describe briefly about subnet addressing.
3. Explain in detail about structure of TCP?
4. What are top level internet domain names? Give justification for [www.tnou.ac.in](http://www.tnou.ac.in).
5. What are the features of UDP?
6. What is IP routing? Discuss briefly about IP routing algorithm.

7. What are the general characteristics of IP multicasting?

PART B — ( $5 \times 10 = 50$  marks)

Answer any FIVE questions.

8. Explain in detail about Domain Name System.
9. Explain TCP/IP layer architecture with a neat diagram.
10. What are IP routing protocols? Give elaborate discussion about RIP routing protocol.
11. Explain the following
- i. IP address structure
  - ii. TCP header
  - iii. Firewalls
12. Explain the following
- i. Subnet mask
  - ii. Features of TCP
13. Write brief note on socket interface.
14. Discuss in detail on TCP/IP over ATM networks.