

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(CSE)/(IT) (2011 Onwards) (Sem.-4)

**COMPUTER NETWORKS-I**

Subject Code : BTCS-403

Paper ID : [A1185]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

**SECTION-A**

**Answer briefly :**

1. Explain terms WAN and MAN.
2. What is Time division multiplexing?
3. What is Circuit switching?
4. What is the function of Medium Access Layer?
5. What are the issues of Data Link Layer?
6. Define Bandwidth.
7. What is the difference between MAC address and IP address?
8. What is Datagram?
9. What is WWW?
10. Define subnetting.

### **SECTION-B**

11. Discuss in detail about different Network Topologies.
12. What are Transmission Impairments?
13. Write short note on Twisted Pair cable and Coaxial cable.
14. Explain how token Bucket protocol is used for congestion control.
15. Compare UDP and Transmission Control protocol in brief.

### **SECTION-C**

16. Explain the difference between TCP and OSI Model.
17. a) Discuss about Go-Back-N ARQ Sliding Window protocol.  
b) Explain IP addressing.
18. Write short notes on following :
  - a) FTP
  - b) DNS
  - c) Distance Vector Routing algorithm.