

D-10/2110

5556/NJ

Computer Networks and Data Communication(357)

(Semester V)

NOTE:The candidates are required to attempt any four questions from all. Each question carry equal marks.

SECTION-A

1. Discuss in detail the various layers of OSI reference model.
2. Differentiate between LAN and WAN.
3. What is Network topology? Discuss the various Network topologies.
4. Discuss the structure of the Telephone system in details.

SECTION-B

5. What is difference between Circuit switching and packet switching ?
6. Define Bridge and Gateways .
7. Explain following
 - (a). DNS
 - (b). WWW
8. What do you mean by data compression ? Explain its techniques in detail

SECTION-C

9. Answer the following question in short :
 - i. What are the applications of Computer networks ?
 - ii. What are various types of networks ?

- iii. Explain Email?
- iv. What is Router ?
- v. What is Data rate of Channel ?
- vi. What is Multimedia ?
- vii. What is internetworking