

## COMPUTER NETWORKS -214

## SEMESTER- III

TIME ALLOWED 3 Hrs

MM 70

NOTE: The candidates are required to attempt two questions each from Section A & B Section C will be compulsory.

**Section-A**

- Q1. Explain the various layers of the OSI reference model. Compare it with the TCP/IP model. (10.5)
- Q2. Explain (a) Urn Protocol (b) Adaptive tree Walk Protocol (10.5)
- Q3. Discuss the channel allocation for LAN and MAN Aloha protocols. (10.5)
- Q4. What are the various internetworking devices? Explain their functions in detail. (10.5)

**Section-B**

- Q5. Explain the distributed applications of network security. (10.5)
- Q6. Discuss the functioning of high speed LAN in detail. (10.5)
- Q7.(a) Explain the network security requirements and attacks in detail. (5.5)
- (b) Explain the concept of congestion in detail. (5)
- Q8(a) Explain the concepts of Mobile telephone and mobile telephone switching office. (5.5)
- (b) Discuss the principles of internetworking. (5)

**Section-C**

- Q9.(a) What is Ethernet? (14x2)
- (b) What are the causes of congestion?
- (c) What is the importance of ARPANET?
- (d) Explain CSMA and CSMA/CD.
- (e) What is a fiber channel?
- (f) What are the goals of networking?
- (g) What is public key encryption?
- (i) What is the purpose of gateways?
- (j) What is an open system in OSI?
- (k) Why TCP/IP is called protocol suite?
- (l) What are the advantages of Novell Netware?
- (m) What are digital signatures?
- (n) What is the importance of digital signatures?
- (o) How is a protocol different from standard?