

*Time allowed : 3 hours]**[Maximum marks : 75*

Note : *Question No. 1 is compulsory and attempt any one question from each unit.*

1. Write short notes on the following : 15

- (a) Circuit switching
- (b) BUS topology
- (c) Parity Check Code
- (d) Bridges
- (e) Electronic mail
- (f) IP

Unit-I

2. Explain various Layer of OSI Model. 15

3. (a) Compare various Network types in detail. 7.5
 (b) Describe Layer of TCP/IP protocol suite. 7.5

Unit-II

4. (a) Describe ALOHA protocols in detail. 7.5
 (b) Explain DLC Services in details. 7.5
5. (a) Describe IEEE Standard in detail. 7.5
 (b) What is IEEE 802.11 ? Explain. 7.5

Unit-III

6. (a) Compare classless and classfull Addressing. 7.5
 (b) Describe overview of IPv₆ in detail. 7.5
7. (a) Discuss Network Layer Services in detail. 7.5
 (b) What is ICMP ? Explain. 7.5

Unit-IV

8. Describe Transport Layer protocols in detail. 15
9. (a) What is WWW ? Explain in detail. 7.5
 (b) Explain User datagram protocols. 7.5