SECTION-A

1. What are the basic components of a Network ? Discuss different types of network in detail.   15

2. (a) What are various transmission mediums in computer networks ? Discuss.   7

   (b) Define TCP/IP reference model. How it works ? Discuss different layers of TCP/IP model in detail.   8

SECTION-B

3. What is Multiplexing ? What are its different types ? Discuss in detail.   15

4. Explain the following :

   (a) Pulse Code Modulation

   (b) Hybrid switching $2 \times 7.5 = 15$

SECTION-C

5. (a) What is IEEE 802 standard ? How many IEEE 802 standards are there ? Discuss in detail.   10

   (b) How Token Bus Network works ?   5

6. How Data Link Layer works ? Explain Data Link Layer Design Issues in detail.   15

SECTION-D

7. What is cryptography in computer networks ? What are its types ? Discuss in detail.   15

8. What is a network service ? What services can a computer network offer ? Discuss in detail.   15