1. What is computer network? Explain network topology in detail.

2. Classify network in the basis of size.

3. What are the two network architectures in practice explain with example?

4. Why do we need layered protocol architecture?

5 What do you mean by protocol, explain OSI reference model in detail.

6 Why network software should be in hierarchical form?

7 Why are the network software defined with distinct layers stacked on top of one another?

8What are the factors to be considered when designing these layers?

9 Explain the need of Networking Software in the form of Hierarchy? Mention in which level layer of OSI reference model following tasks are done.

- ❖ **Timing and voltage of received signal**
- ❖ **Encryption and decryption of data**
- ❖ **Data framing**
- ❖ **Point-to-point connection of socket**

10.What do you mean by protocol and interface? Write the protocols used in each layer of TCP/IP model.

11. What are the duties of physical layer.

12 Explain different types of network media with their properties. Write down which media you use to access internet at you home?

13 What do you mean by mobile data communication? Explain GSM, GPRS and CDMA technology.

15 Explain different Switching technologies in brief

16 Why is network management an important task.

17 Explain client server system? Explain how it differs from peer to peer system with example.

18 Define transmission media ?What are the different types of transmission media?Explain different types of unguided media in detail.