

**Chapter: 2 Computer Network**  
**Multiple Choice Questions**

**1) Which of the following is a basic element of a communication system?**

- A. Compiler    B. Transmitter    C. Database    D. Printer

**2) Communication system mainly refers to:**

- A. Process of storing data  
B. Process of transmitting data from sender to receiver  
C. Process of processing data  
D. Process of deleting data

**3) In the block diagram of a communication system, which component converts data into signals?**

- A. Receiver    B. Channel    C. Transmitter    D. Noise

**4) Which of the following is NOT an element of data communication?**

- A. Sender    B. Medium    C. Receiver    D. Compiler

**5) Simplex communication means:**

- A. Two-way communication    B. One-way communication only  
C. Two-way but not simultaneous    D. Multi-way communication

**6) Which mode allows two-way communication but not at the same time?**

- A. Simplex    B. Half duplex    C. Full duplex    D. Multiplex

**7) Telephone conversation is an example of:**

- A. Simplex    B. Half duplex    C. Full duplex    D. Simplex and Half duplex

**8) LAN is suitable for:**

- A. A small geographical area    B. A country  
C. Worldwide network    D. Inter-continental network

**9) WAN covers:**

- A. A building only    B. A city    C. A country or larger area    D. A classroom

**10) Which of the following is a guided transmission medium?**

- A. Radio wave    B. Microwave    C. Optical fiber    D. Infrared

**11) Which is an unguided transmission medium?**

- A. Twisted pair cable    B. Coaxial cable  
C. Optical fiber    D. Radio wave

**12) Crosstalk in data transmission refers to:**

- A. Delay in signal    B. Mixing of signals from nearby wires  
C. Increase in bandwidth    D. Signal amplification

**13) Noise in communication system means:**

- A. Desired signal    B. Unwanted disturbance in signal  
C. High bandwidth    D. Signal strength

**14) Client–Server network architecture means:**

- A. All computers are equal  
B. One central server provides services to clients  
C. No server is used  
D. All nodes act as servers

**15) Peer-to-peer network means:**

- A. One computer controls all    B. All computers have equal role  
C. Only server shares resources    D. Only client can share

**16) Which of the following uniquely identifies a device on a network?**

- A. IP address    B. MAC address    C. Gateway    D. Subnet mask

**17) Which tool is mainly used for network simulation and practice?**

- A. MS Word    B. Packet Tracer    C. Photoshop    D. Notepad

**18) Which device connects different networks together?**

- A. Switch    B. Router    C. NIC    D. Modem

**19) Which topology uses a central hub or switch?**

- A. Bus    B. Ring    C. Star    D. Mesh

**20) How many layers are there in the OSI Reference Model?**

- A. 5    B. 6    C. 7    D. 8