

Week- 3

Practice Assessment – Socket API & Digital Transmissions

1. Which of the following applications would you select TCP protocol for?

- **File transfer**
- **Web browsing**
- Domain name service
- None of the above

2. In BSD socket API, which type of socket is used to create a TCP socket?

- **SOCK_STREAM**
- SOCK_RAW
- SOCK_DGRAM
- None of the above

3. In BSD socket API, which type of socket is used to create a UDP socket?

- SOCK_STREAM
- **SOCK_DGRAM**
- SOCK_RAW
- None of the above

4. In BSD socket API, which system call is used to assign a network address to the socket?

- listen()
- connect()
- None of the above
- **bind()**

5. In BSD socket API, if a client knows the server name but not server's network address, what system call should the client use to get server's network address?

- Connect()
- **gethostbyname()**
- gettimeofday()
- None of the above

6. In a transmission system, which of the following statement is true for a receiver

- **Receives energy from medium**
- Converts information into signal suitable for transmission
- **Converts received signal into a form suitable for delivery to user**
- All of the above

7. In digital transmission, long distance digital communications require the use of a generator to recover original data sequence and re-transmits on next segment

- **True**
- False

8. In twisted pair, a category 5 UTP cable can support a data rate of up to 16MHz

- True
- **False**

9. Which of the following statement is true for optical fiber

- Plentiful bandwidth for new services
- Dominates long distance transmission
- Distance less of a cost factor in communications
- **All of the above**

10. Which of the following are advantages of optical fiber

- **No corrosion**
- Extremely low bandwidth
- Wavelength dependency
- **Noise immunity**