



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



WORKSHEET - 6(Answer Key)

Topic – Components of Network (UTP and STP)

Subject: COMPUTER SCIENCE

Class - 12

F.M:15

Chapter: Computer Networking

Date: 09/05/2020

Choose the correct answer for each question:

15x1=15

1. _____ is defined as the physical medium through which the signals are transmitted.
 - a. Guided media
 - b. Bounded media
 - c. **Both (a) and (b)**
 - d. Unguided media
2. The frequency range for twisted pair cable is from :
 - a. **0 to 3.5 KHz.**
 - b. 0 to 4.5 KHz.
 - c. 0 to 5.5 KHz.
 - d. None of these
3. Twisting of wires in twisted pair cable helps to
 - a. increase the data speed
 - b. **reduce the effect or noise or external interface**
 - c. make the cable stronger
 - d. make the cable attractive
4. STP stand for:
 - a. Standard Telephone cable pair
 - b. **Shielded Twisted Pair**
 - c. Standard Twisted Pair
 - d. Shielded Telephone Pair
5. UTP stand for:
 - a. Unguided Telephone cable pair
 - b. **Unshielded Twisted Pair**
 - c. Unguided Twisted Pair
 - d. Unshielded Telephone Pair
6. _____ cables are very cheap and easy to install, but they are badly affected by the noise interference.
 - a. STP
 - b. **UTP**

- c. Co-axial
 - d. Optical Fiber
7. Applications of twisted pair cable is/are
- a. In telephone lines to carry voice and data channels
 - b. In the DSL line (ADSL)
 - c. In the ISDN (Integrated Services Digital Network)
 - d. **all of these**
8. Data rate in UTP is _____ compared to STP.
- a. **Slow**
 - b. Fast
 - c. Equal
 - d. Cannot be determined
9. The cost of UTP is _____ compared to STP.
- a. higher
 - b. **lesser**
 - c. Equal
 - d. Cannot be determined
10. In UTP noise is _____ compared to STP.
- a. **high**
 - b. low
 - c. Equal
 - d. Cannot be determined
11. Maintenance requirement in STP is _____ compared to UTP.
- a. **more**
 - b. less
 - c. Equal
 - d. Cannot be determined
12. Grounding cable is required in
- a. **STP**
 - b. UTP
 - c. Both (a) and (b)
 - d. None of these
13. Attenuation rate in UTP is _____ compared to STP.
- a. High
 - b. **Low**
 - c. Equal
 - d. Cannot be determined
14. High speed LAN is the application of:
- a. STP
 - b. **UTP**

c. Both (a) and (b)

d. None of these

15. _____ UTP cables were originally used for voice communication with low data rates.

a. Category 1

b. Category 2

c. **Category 1 and 2**

d. Category 1, 2 and 3

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