



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



## WORKSHEET – 7 (Answer Key)

### Topic – Components of Network (Coaxial and Fibre optic cable)

Subject: COMPUTER SCIENCE

Class - 12

F.M:15

Chapter: Computer Networking

Date: 11/05/2020

#### Choose the correct answer for each question:

[1 × 15 = 15]

1. Which of the following is not a guided/bounded medium?
  - a. Twisted-pair
  - b. Fibre-optic
  - c. Coaxial
  - d. **Atmosphere**
  
2. \_\_\_\_\_ cable consists of an inner copper core and a second conducting outer sheath.
  - a. **Coaxial**
  - b. Fibre-optic
  - c. STP
  - d. Twisted-pair
  
3. The copper mesh of coaxial cable prevents from :
  - a. Noise
  - b. Dust
  - c. **EMI(Electromagnetic interference).**
  - d. All of these
  
4. The inner core of an optical fiber is \_\_\_\_\_ in composition.
  - a. Copper
  - b. **Plastic or glass**
  - c. Bimetallic
  - d. Liquid
  
5. The name of the cable is \_\_\_\_\_ as it contains two conductors - an inner conductor and an outer conductor separated by insulation.
  - a. **Coaxial**
  - b. Fibre-optic
  - c. STP
  - d. UTP

6. TV wire is usually \_\_\_\_\_ cable:
- a. **Coaxial**
  - b. Fibre-optic
  - c. STP
  - d. UTP
7. What is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable?
- a. insulating material
  - b. **outer conductor**
  - c. inner conductor
  - d. diameter of cable
8. In an optical fiber, the inner core is \_\_\_\_\_ the cladding.
- a. Less dense than
  - b. The same density as
  - c. Another name for
  - d. **Denser than**
9. In fiber optics, the signal is \_\_\_\_\_ waves.
- a. Radio
  - b. **Light**
  - c. Infrared
  - d. Very low frequency
10. \_\_\_\_\_ cables are composed of a glass or plastic inner core surrounded by cladding, all encased in an outside jacket.
- a. Coaxial
  - b. **Fibre-optic**
  - c. STP
  - d. UTP
11. In a fiber-optic cable, the signal is propagated along the inner core by \_\_\_\_\_.
- a. **Reflection**
  - b. Refraction
  - c. Modulation
  - d. multiplexing
12. \_\_\_\_\_ cables carry data signals in the form of light.
- a. Coaxial
  - b. **Fibre-optic**
  - c. STP
  - d. UTP

13. \_\_\_\_\_ carries signals of higher frequency ranges than twisted-pair cable.

- a. **Coaxial**
- b. Fibre-optic
- c. STP
- d. Twisted-pair

14. The outer metallic sheath in coaxial cable function is:

- a. A connector
- b. A second conductor
- c. A shield against noise
- d. **Both (b) and (c)**

15. Advantages of Fibre-optic cable :

- a. Thinner and Lighter
- b. Faster speed
- c. Greater bandwidth
- d. **All of these**

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