**الاسم: الشعبة: امتحان الفصل الاول , الامتحان الثاني 13/12/2018**

**Q1/ Full in the blanks:**

1. When links are **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** by multiple devices this can be eliminating the traffic problems that can occur.

2. One practical example of a **\_\_\_\_\_\_\_\_** topology is the connection of telephone regional offices

3. In **\_\_\_\_\_\_\_\_\_\_ topology, t**he devices are not directly linked to one another.

4. Multimode fiber optics typically use an [**\_\_\_\_\_\_\_\_\_\_\_**](https://whatis.techtarget.com/definition/light-emitting-diode-LED) to create the light pulse.

5. The abbreviation (TIR) is stand for **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** cabling does not offer as high bandwidth or as good protection from interference as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

7. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** cable is not as easy to hack as **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** because copper wire is contained in plastic jacket.

**Q2/ Choose the Correct Statement By Circle its Alphabet:**

1. What part of a cable protects it against environmental damage?  
A. Sheath B. Braiding C. Plenum D. Cladding

2. What is the loss of signal strength as it travels away from the source?

1. Attenuation B. Deconfliction C. Amplification D. Crosstalk

3. Which device could you use if you need to change copper Ethernet over to fiber Ethernet?

1. Media converter B. Fiber replicator C. you can't do that D. NIC

4. \_\_\_\_\_\_\_ cable consists of an inner copper core and a second conducting outer sheath.

1. Twisted-pair B. Coaxial C. Fiber-optic D. Shielded twisted-pair

5. When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, \_\_\_\_\_\_\_ occurs.

1. Reflection B. Refraction C. Incidence D. Criticism

6.The amount of data that can be carried from one point to another in a given time period is called

1. Scope B. Capacity C. Bandwidth D. Limitation

7. \_\_\_\_\_\_\_\_\_ media transport electromagnetic waves without the use of a physical conductor.

1. Guided B. Unguided C. Either (a) or (b) D. None of the above

**Q3/ Define what is Fiber Optics and List its components and what is the advantages of Fiber Optics?**