

Sample of Questions:

Q)What is the difference between each of the following?

1- UTP and STP Cables 2- Thinnet and Thicknet Cables Solution:

1. In STP Cables, there is a shield around each individual pair, as well as around the entire group of wires (referred to as double shield twisted pair).
2. Thinnet is a flexible coaxial cable about $\frac{1}{4}$ inch thick. Thinnet is used for short distance. The maximum length of thinnet is 185 meters. Thicknet coaxial is thicker cable than thinnet. Thicknet cable is about $\frac{1}{2}$ inch thick and can support data transfer over longer distances than thinnet. Thicknet has a maximum cable length of 500 meters and usually is used as a backbone to connect several smaller thinnet-based networks.

) Q) What are the components of Coaxial Cable? Solution: A solid-core copper wire runs down the middle of the cable.

Around that solid-core copper wire is a layer of insulation, and covering that insulation is braided wire and metal foil, which shields against electromagnetic interference. A final layer of insulation covers the braided wire.

Q/ Define: Network topology. Solution: Network topology: The topology of a network refers to the configuration of cables, computers, and other peripherals

Q) 2. True or false Questions: **Q)** write True or False for the following statement:

1- RJ45 connector used with coaxial cables. (False)

3. Multiple choices: In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase.

Example: **Q)** choose the best answer for the following questions:

1- We use a BNC Terminator in: A. Star topology B. Bus topology C. Ring topology

D. Mesh topology Solution:

B. Bus topology

Q/ Using CLI configure the following setting on a router:

- 1- Name
- 2- Enable Password
- 3- configure Fa 0/0 with IP 192.168.1.0/24 and up it
- 4- Create A standard ACL 10 to allow only host 192.168.2.13
- 5- Save configuration

Q/ Using CLI configure the following setting on a switch

- 1- Create 2 VLAN : VLAN 13 ,IT , VLAN 14 Net
- 2- Assign ports as follow: VLAN 13: FA 0/1-5 , VLAN 14: Fa 0/6-22
- 3- configure port 24 as trunk
- 4- configure port security for Fa 0/23 with 2 sticky macs and restrict violation