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FTTH Interview Questions

Q1. What do you understand by FTTH?

FTTH (Fibre to the Home) is the use of fiber optic cable to provide communication technology to homes and businesses. It provides much higher bandwidth than the existing communication infrastructure such as **telephone** and **coaxial cable**.

The **FTTH** can be deployed in **two** such as **active** and **passive** methods. Right now, the passive method is the most used.

The **passive** method uses **two technologies** such as Ethernet Passive Optical Network (**EPON**) and Gigabit-capable Passive Optical Networks (**GPON**) to provide communication.

Q2. What is the maximum differential fiber distance in GPON?

The **maximum** differential fiber distance in the **GPON** is **20 Kilometres**.

Q3. What is the maximum logical reach in GPON?

The **maximum logical reach** in GPON is defined as **60 Kilometres**.

Q4. What is OAN in FTTH?

The **OAN (Optical Access Network)**, also known as **SNI (Services Network Interface)** is an access network towards the network side. All the components such as **ODF/FDMS** that are connected to the SNI comes under Optical Access Network. In layman's terms, OAN is the set of access links that share the same network-side interfaces. It is supported by the optical access transmission systems.

Q5. What is Optical Distribution Network?

The **ODN (Optical Distribution Network)** is a passive optical distribution network that uses single-mode optical fiber. It is used in **optical splitters, outside plant, and optical distribution frames**. The Optical Distribution Network is duplexed so that both the upstream and downstream signals share the same fiber on a

sperate wavelength.

Faster PON supports a higher split ratio of users per PON, but it uses extenders or amplifiers for extra coverage

Q6. What are the Bit rates defined in GPON?

The Bit rates defined in **GPON** identifies the **two transmission speed**. They are,

1. **1.2 Gbps up, 2.4 Gbps down**
2. **2.4 Gbps up, 2.4 Gbps down**

Here, the most important bit rate is **1.22 Gpbs upstream** and **2.4 Gpbs downstream**. GPON transmission speed is aimed at greater than or equal to **1.2 Gpbs**.

Q7. Enlist major benefits of Optical Fiber in FTTH?

Some of the advantages of using Fibre optic cable are,

- It is easy to upgrade.
- It supports a high capacity for carrying information.
- It is easy to install and covers a long distance.
- It is strong, flexible, and reliable while being safe and secure.
- It allows symmetric services.
- It costs lower to install. Also, the operation and maintenance costs are low.
- It is immune to the **EMI** (Electro-Magnetic Interference).
- The cables are small and lightweight.

Q8. What is GPON full form?

The full-form of GPON is (Gigabit-capable Passive Optical Networks).

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