## **SOLUTION QUIZ-01 BSE-6A**

## **QUESTION-01**

- 1. **Answer:** d) Access Delay
- *Explanation:* Access delay is not part of the four main delays (processing, transmission, propagation, and queuing delays).
- 2. **Answer:** a) Delay caused by signal transmission through a medium
- *Explanation:* Propagation delay is the time it takes for the signal to travel through a medium (e.g., fiber optic or copper wire).
- 3. **Answer:** a) DSLAM
- Explanation: DSLAM (Digital Subscriber Line Access Multiplexer) aggregates multiple DSL connections.

## TRUE/FALSE

- i. False
- ii. False

## **QUESTION-02**

```
L = 1500bytes 
S = 2.5 \times 10^8 R = 2 Mbps 
D trans = L / R 1500 bytes/ 2Mbps = 12,000bits / 2,000,00 = 0.006 secs = 6msec 
Link 1 prop = D/S 5000km / 2.5 \times 10^8 m/s = 5,000,000m / 2.5 \times 10^8 = 20 msec 
Link 2 prop = 4000km / 2.5 \times 10^8 = 4,000,000 m / 2.5 \times 10^8 = 16 msec 
Link 3 prop = 1000km / 2.5 \times 10^8 = 1,000,000 / 2.5 \times 10^8 = 1000km / 100km / 1000km / 100km / 100km / 100km / 100km / 100
```