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1. A switched network consists of a series of interlinked _____ called switches.

Options:

a) Points

b) Nodes

c) Systems

d) Roots

Correct option: b) Nodes

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2. In virtual circuit approach, when a frame enters a switch and when it leaves a switch, its VCI _____.

Options:

a) Sometimes Changes

b) Always Changes

c) Remain the Same

d) Sometimes Remain Same

Correct option: c) Remain the Same

3. Data link layer is divided into _____ sublayers.

Options:

a) Seven

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b) Two

c) Three

d) Five

Correct option: b) Two

4. In _____ type of error, two or more bits in the data unit will be changed.

Options:

a) Burst

b) Single bit

c) Mono

d) Zero

Correct option: a) Burst

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5. Virtual-Circuit Networks and datagram networks are the subcategories of _____.

Options:

a) Circuit Switched Networks

b) Packet-switched networks

c) Both circuit and message-switched networks

d) Message-switched networks

Correct option: b) Packet-switched networks

6. Error detection and correction are the services provided by _____ layer.

Options:

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a) Physical layer

b) Session layer

c) Data link layer

d) Application layer

Correct option: c) Data link layer

7. A local telephone network uses _____ network.

Options:

a) Packet-switched

b) Line-switched

c) Circuit-switched

Correct option: c) Circuit-switched

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8. _____ is the process of converting digital data to digital signals.

Options:

a) Line coding

b) CSMA/CD

c) Segmentation

d) CSMA/CA

Correct option: a) Line coding

9. In _____ systems, resources are allocated on demand.

Options:

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a) Packet switching

b) Frequency switching

c) Circuit switching

d) Line switching

Correct option: a) Packet switching

10. In a crossbar switch, the crosspoints can be calculated by _____ inputs and outputs.

Options:

a) Dividing

b) Multiplying

c) Adding

d) Subtracting

Correct option: b) Multiplying

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