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Question 2

Answer saved

Marked out of 1.00

Need of Modulation :

- ☐ a. To reduce the height of the antenna
- ☒ b. All of the above
- ☐ c. To overcome signal attenuation during transmission
- ☐ d. To avoid mixing of signal

[CLEAR MY CHOICE](#)**Question 3**

Answer saved

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In _____ switching, the paths in the circuit are separated from one another spatially.

- ☐ a. All of the option
- ☐ b. Time Divison
- ☐ c. None of the option
- ☒ d. Space Division

[CLEAR MY CHOICE](#)

Question 4

Answer saved

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In amplitude shift keying (ASK)

- ☒ a. Both frequency and phase remain constant while the amplitude changes.
- ☐ b. Both Amplitude and frequency remain constant while the phase changes.
- ☐ c. None of the option
- ☐ d. Both Amplitude and phase remain constant while the frequency changes.

[CLEAR MY CHOICE](#)

Question 5

Answer saved

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Advantages of Multiplexing are:

- ☐ a. In telecommunications, multiplexing plays a key role to reduce the cost of networks through reducing the number of communications links required among two points.
- ☒ b. All of the option
- ☐ c. The bandwidth of a medium can be utilized effectively.
- ☐ d. More than one signal can be sent over a single medium.
- ☐ e. Multiplexing enhances the network's economic stability because it reduces both the time as well as cost required for the operation of the physical medium when a single medium serves many signals or subscribers or applications.

[CLEAR MY CHOICE](#)

Question 6

Answer saved

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The word _____ refers to the portion of a _____ that carries a transmission.

- ☐ a. Link , Channel
- ☒ b. Channel, Link
- ☐ c. None of the option
- ☐ d. Line , Link

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Question 7

Answer saved

Marked out of 1.00

Block coding adds redundancy to line coding so that error detection can be implemented.

Select one:

- ☒ True
- ☐ False

Question 8

Answer saved

Marked out of 1.00

In _____, the resources need to be reserved during the setup phase; the resources remain dedicated for the entire duration of data transfer phase until the teardown phase.

- ☒ a. Circuit Switching
- ☐ b. All of the option.
- ☐ c. Datagram Switching
- ☐ d. Frame Switching

[CLEAR MY CHOICE](#)

Question 9

Answer saved

Marked out of 1.00

_____ is an analog multiplexing technique to combine optical signals.

- ☐ a. TDM
- ☐ b. None of the option
- ☒ c. WDM
- ☐ d. FDM

[CLEAR MY CHOICE](#)

Question 10

Answer saved

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Pulse Code Modulation (PCM) is:

- ☐ a. To obtain PCM from an analog waveform at the source (transmitter), the analog signal amplitude is sampled at regular time intervals.
- ☐ b. All forms of analog data like video, voice, music and telemetry can be transferred.
- ☒ c. All of the option
- ☐ d. a technique to convert analog data to digital signal
- ☐ e. At the destination (receiver), a pulse code demodulator converts the binary numbers back into pulses having the same quantum levels as those in the modulator.

[CLEAR MY CHOICE](#)

Question 11

Answer saved

Marked out of 1.00

Modulation involves three signals :

- ☐ a. Modulated Signal, Base Band Signal, Pass Band Signal
- ☐ b. Message Signal, Base Band Signal, Pass Band Signal
- ☐ c. Modulated Signal, Base Band Signal, Message Signal
- ☒ d. None of the option

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Question 12

Answer saved

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In Polar – RZ

- ☐ a. It has no error detection capability
- ☐ b. More complex
- ☐ c. Each symbol has a transition in the middle.
- ☐ d. Uses three voltage values. +, 0, -.
- ☒ e. All of the option

[CLEAR MY CHOICE](#)

Question 13

Answer saved

Marked out of 1.00

In QAM (Quadrature Amplitude Modulation)

- ☐ a. Is the combination of phase and amplitude modulation of a carrier wave into a single channel
- ☐ b. In QAM the phase difference between two carriers is 90 degrees but each having the same frequency
- ☐ c. It is a combination of ASK & PSK.
- ☐ d. QAM transmits information by changing both the amplitude and phase of a carrier wave, thereby doubling the effective bandwidth.
- ☒ e. All of the Option

[CLEAR MY CHOICE](#)

Question 14

Answer saved

Marked out of 1.00

In Synchronous TDM, if there are n sending devices, then there are n time slots. In Asynchronous TDM, if there are n sending devices, then there are m time slots where m is less than n ($n < m$).

Select one:

- ☐ True
- ☒ False

Question 15

Answer saved

Marked out of 1.00

In Unipolar Line Coding

- ☐ a. NRZ - Non Return to Zero scheme is an example of this code.
- ☒ b. All of the option
- ☐ c. The signal level does not return to zero during a symbol transmission.
- ☐ d. All signal levels are either above or below the time axis.

[CLEAR MY CHOICE](#)

Question 16

Answer saved

Marked out of 1.00

Time Division Multiplexing:

- ☐ a. In Time Division Multiplexing technique, data is not transmitted simultaneously rather the data is transmitted one-by-one.
- ☒ b. All of the option
- ☐ c. In TDM, the signal is transmitted in the form of frames. Frames contain a cycle of time slots in which each frame contains one or more slots dedicated to each user.
- ☐ d. The total time available in the channel is distributed among different users. Therefore, each user is allocated with different time interval known as a Time slot at which data is to be transmitted by the sender.
- ☐ e. It is a digital technique.

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Question 17

Answer saved

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SAMPLING is the Process of converting a continuous time signal to an equivalent discrete time signal.

Select one:

- ☒ True
- ☐ False

Question 18

Answer saved

Marked out of 1.00

In a multiplexed system, _____ lines share the bandwidth of _____ link.

- ☐ a. 1; 1
- ☐ b. 1; n
- ☐ c. n; n
- ☒ d. n; 1

[CLEAR MY CHOICE](#)

Question 19

Answer saved

Marked out of 1.00

The sharing of a medium and its link by two or more devices is called _____.

- ☐ a. Modulation
- ☐ b. Encoding
- ☒ c. Multiplexing
- ☐ d. None of the option

[CLEAR MY CHOICE](#)

Question 20

Answer saved

Marked out of 1.00

_____ can be applied when the bandwidth of a link (in hertz) is greater than the combined bandwidths of the signals to be transmitted.

- ☐ a. TDM and FDM both
- ☐ b. TDM
- ☐ c. None of the option
- ☒ d. FDM

[CLEAR MY CHOICE](#)

Question 21

Answer saved

Marked out of 1.00

Which multiplexing technique transmits digital signals?

- ☐ a. None of the option
- ☒ b. TDM
- ☐ c. WDM
- ☐ d. FDM

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Question 22

Answer saved

Marked out of 1.00

In which modulation Bit 0 is represented by a specific frequency, and bit 1 is represented by a different frequency.

- ☐ a. QAM
- ☐ b. ASK
- ☐ c. PSK
- ☒ d. FSK

[CLEAR MY CHOICE](#)**Question 23**

Answer saved

Marked out of 1.00

Circuit switching takes place at the _____ layer.

- ☒ a. Physical
- ☐ b. Transport
- ☐ c. Network
- ☐ d. Data line

[CLEAR MY CHOICE](#)

Question 24

Answer saved

Marked out of 1.00

A switch in a datagram network uses a routing table that is based on the _____ address.

- ☐ a. Local
- ☒ b. Destination
- ☐ c. None of the option
- ☐ d. Source

[CLEAR MY CHOICE](#)

Question 25

Answer saved

Marked out of 1.00

Advantages Of Frequency Division Multiplexing are:

- ☐ a. It does not require any synchronization between sender and receiver.
- ☐ b. A Large number of signals can be sent through an FDM simultaneously.
- ☒ c. All of the option
- ☐ d. FDM is used for analog signals.
- ☐ e. FDM process is very simple and easy modulation.

[CLEAR MY CHOICE](#)

Question 26

Answer saved

Marked out of 1.00

ASK is normally implemented using only two levels and is hence called binary amplitude shift keying.

Select one:

- ☒ True
- ☐ False

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