

Day and Date: Saturday, 22/01/2022

Time: 10.00 am to 11.00 am

Seat No :

Max. Marks- 50

OBJECTIVE

		Correct Option
Q. 1)	The ability of the receiver to select the wanted signals among the various incoming signals is termed as	<input type="checkbox"/>
	A) Sensitivity	
	B) Selectivity	
Q. 2)	In Amplitude Demodulation, the condition which the load resistor R must satisfy to discharge capacitor C slowly between the positive peaks of the carrier wave so that the capacitor voltage will not discharge at the maximum rate of change of the modulating wave (W is message bandwidth and ω is carrier frequency, in rad/sec) is	<input type="checkbox"/>
	A) $RC < 1/W$	
	B) $RC > 1/W$	
Q.3)	The modulation technique that takes the lowest bandwidth among the given	<input type="checkbox"/>
	A) AM	
	B) FM	
Q. 4)	Envelope Detector is a/an _____	<input type="checkbox"/>
	A) Coherent detector	
	B) Asynchronous Detector	
Q. 5)	What are FM and AM collectively referred together as?	<input type="checkbox"/>
	A) Modulation	
	B) Hi-fi Modulation	
Q. 6)	To encode the information in the carrier signal by altering the wave frequency instantaneously is known as _____	<input type="checkbox"/>
	A) Amplitude Modulation	
	B) Frequency Modulation	
Q. 7)	Drawbacks of Tuned Radio Receiver are	<input type="checkbox"/>
	A) Oscillate at higher frequencies	
	B) Bandwidth of the TRF receiver varies with incoming frequency	
Q. 8)	The minimum nyquist bandwidth needed for baseband transmission of R_s symbols per second is	<input type="checkbox"/>
	A) R_s	
	B) $2R_s$	
Q. 9)	Which parameter is called as Shannon limit?	<input type="checkbox"/>
	A) PB/N_0	
	B) EB/N_0	
Q. 10)	To satisfy sampling theorem, a 100 Hz sine wave should be sampled at	<input type="checkbox"/>
	A) 10 Hz	
	B) 50 Hz	
Q. 11)	The signals which are obtained by encoding each quantized signal into a digital word is called as	<input type="checkbox"/>
	A) 100 Hz	
	D) 200 Hz	

	A) PAM signal	B) PCM signal	
	C) FM signal	D) Sampling and quantization	
Q.12)	Quantization noise can be reduced by _____ the number of levels.		
	A) Decreasing	B) Increasing	
	C) Doubling	D) Squaring	
Q. 13)	DPCM encodes the PCM values based on		
	A) Quantization level	B) Difference between the current and predicted value	
	C) Interval between levels	D) None of the mentioned	
Q. 14)	Adaptive DPCM is used to		
	A) Increase bandwidth	B) Decrease bandwidth	
	C) Increase SNR	D) None of the mentioned	
Q. 15)	What is the abbreviation of SQNR?		
	A) Signal-to-Quantization Net Ratio	B) Signal-to-Quantization Noise Ratio	
	C) Signal-to-Quantization Noise Region	D) Signal-to-Quantization Net Region	
Q. 16)	Capacity of a channel can be increased by		
	A) Increasing channel bandwidth	B) Increasing signal power	
	C) Increasing channel bandwidth & signal power	D) None of the mentioned	
Q. 17)	When pulse code modulation is applied to non-binary symbols we obtain waveform called as		
	A) PAM	B) M-ary	
	C) PCM	D) line codes	
Q. 18)	In which waveform logic 1 is represented by half bit wide pulse and logic 0 is represented by absence of pulse?		
	A) RZ-AMI	B) Manchester coding	
	C) Unipolar RZ	D) Bipolar RZ	
Q. 19)	Which method should be implemented for reducing bandwidth?		
	A) Multilevel signaling	B) Multilevel codes	
	C) PDM	D) PAM	
Q. 20)	The method in which small amount of controlled ISI is introduced into the data stream rather than trying to eliminate it completely is called as		
	A) Duo binary signaling	B) Correlative coding	
	C) Partial response signaling	D) All of the mentioned	
Q.21)	Coherent detection of binary ASK signal requires		
	A) Phase synchronization	B) Timing synchronization	
	C) Amplitude synchronization	D) Both a) and b)	
Q. 22)	In Binary FSK, mark and space respectively represent		
	A) 0 and 1	B) 1 and 0	
	C) 00 and 11	D) 11 and 00	
Q. 23)	The data rate of QPSK is _____ of BPSK.		
	A) Same	B) Twice	
	C) Thrice	D) Four times	
Q. 24)	The BPSK signal has +V volts and -V volts respectively to represent		
	A) 1 and 0 logic levels	B) 11 and 00 logic levels	
	C) 10 and 01 logic levels	D) 00 and 11 logic levels	
Q. 25)	Why spread spectrum technique is inefficient for a single user?		
	A) Fixed null bandwidth	B) Fixed transmission bandwidth	
	C) Large transmission bandwidth	D) Small transmission bandwidth	

