

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/CSE	Year / Semester : II / III	Format No.	NAC/TLP-07a.13
Subject Code : EC8395	Subject Name : Communication Engineering	Rev. No.	02
Unit No : 1	Unit Name : Analog Modulation	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	Modulation is done in _____ a) Receiver b) Transducer c) Between transmitter and radio receiver d) Transmitter	L2
2	In TV transmission, picture signal is _____ modulated. a) DSB-SC b) VSB c) SSB-SC d) Pulse	L2
3	In TV transmission, sound signal is _____ modulated. a) Phase b) Pulse c) Frequency d) Amplitude	L4
4	Square Law modulators are _____ a) used for frequency modulation b) used for pulse width modulation c) used for amplitude modulation d) used for phase modulation	L5
5	Ring Modulator is _____	L1

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	<p>a) used for DSB-SC generation</p> <p>b) used for SSB-SC generation</p> <p>c) used for VSB generation</p> <p>d) used for AM generation</p>	
6	<p>What is the role of the transmitter in the communication system?</p> <p>a) to decode a signal to be transmitted</p> <p>b) to convert one form of energy into other</p> <p>c) to detect and amplify information signal from the carrier</p> <p>d) to produce radio waves to transmit data</p>	L1
7	<p>What is the maximum transmission efficiency?</p> <p>a) 67.88%</p> <p>b) 33.33%</p> <p>c) 73%</p> <p>d) 54.03%</p>	L2
8	<p>Frequency hopping involves a periodic change of transmission _____</p> <p>a) Signal</p> <p>b) Frequency</p> <p>c) Phase</p> <p>d) Amplitude</p>	L1
9	<p>AVC stands for _____</p> <p>a) Abrupt Voltage Control</p> <p>b) Audio Voltage Control</p> <p>c) Automatic Volume Control</p> <p>d) Automatic Voltage Control</p>	L1

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10	The bandwidth of the channel used in the hopset is called _____ a) Hopping bandwidth b) Total hopping bandwidth c) Instantaneous bandwidth d) 3 dB bandwidth	L3
11	What is the role of Amplitude limiter in the FM receiver? a) Filtration b) Adjust the gain of receiver c) Amplify a weaker signal d) Demodulate a signal	L2
12	What is Carrier swing? a) Frequency deviation b) Width of sideband c) Instantaneous frequency d) Total variation in frequency	L3
13	AM waves is represented by which equation? a) $[1 + m(t)].c(t)$ b) $[1 - m(t)].c(t)$ c) $[1 + m(t)].2c(t)$ d) $[1 + 2m(t)].c(t)$	L1
14	For attenuation of high frequencies we can use _____ a) inductor b) shunt capacitance c) series capacitance d) combination of inductor and resistor	L1
15	Modulation is also called detection. a) True b) False	L2
16	It is suitable to connect woofer from the input through _____ a) band pass filter	L3

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	b) band stop filter c) low pass filter d) high pass filter	
17	Power of carrier wave is 500W and modulation index is 0.25. Find its total power? a) 500W b) 415W c) 375W d) 516W	L1
18	Commercial frequency deviation is _____ a) 75 KHz b) 80 KHz c) 85 KHz d) 65 KHz	L5
19	Which device is has more chance to be found in SSB transmitter? a) balanced modulator b) class A RF amplifier c) class C audio amplifier d) class B RF amplifier	L1
20	The RF section of radio consists both oscillator and buffer stage. a) True b) False	L1
21	What is the frequency of audio modulation? a) 10 Hz b) 20 KHz c) 30 KHz d) 40 KHz	L2

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22	<p>In telegraphy we generally use _____</p> <p>a) Amplitude modulation</p> <p>b) Frequency modulation</p> <p>c) Frequency Shift Keying</p> <p>d) Pulse Code modulation</p>	L3
23	<p>In FM both the frequency and amplitude of carrier signal is varied in accordance with the instantaneous value of modulating signal.</p> <p>a) True</p> <p>b) False</p>	L1
24	<p>In the equation, $20\cos(108t + 3\sin 109t)$ the modulation index is _____</p> <p>a) 1</p> <p>b) 2</p> <p>c) 3</p> <p>d) 4</p>	L5
25	<p>What is the advantage of IF modulation?</p> <p>a) it uses SSB which further reduces its bandwidth</p> <p>b) modular section and visual exciter can be of any state</p> <p>c) it cannot be tuned</p> <p>d) modular section and visual exciter can be solid state devices</p>	L1
26	<p>Transmitters are designed usually to derive a load impedance of _____</p> <p>a) 50 ohms resistive</p> <p>b) 150 ohms resistive</p> <p>c) 250 ohms resistive</p> <p>d) 500 ohms resistive</p>	L1
27	<p>The carrier is suppressed in _____</p>	L2

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	<p>a) a mixer</p> <p>b) a frequency multiplier</p> <p>c) a transducer</p> <p>d) a balance modulator</p>	
28	<p>On which factor the bandwidth required for a modulated carrier depends?</p> <p>a) baseband frequency range</p> <p>b) signal to noise ratio</p> <p>c) carrier frequency</p> <p>d) amplitude of carrier frequency</p>	L3
29	<p>What is the full form of PSTN?</p> <p>a) Public Switched Telephone Network</p> <p>b) Primary Switched Telephone Network</p> <p>c) Private Switched Telephone Network</p> <p>d) Protected Switched Telephone Network</p>	L1
30	<p>In amplitude modulation, magnitude of side bands is $2m_a$ times the carrier amplitude.</p> <p>a) True</p> <p>b) False</p>	L2
31	<p>The term CD in CSMA/CD stands for _____</p> <p>a) Collision Detection</p> <p>b) Collision Delay</p> <p>c) Compact Detection</p> <p>d) Compact Delay</p>	L2
32	<p>In synchronous transmission, receiver is able to sync with the transmitter by using _____</p> <p>a) Clock bits</p>	L3

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b) Start and Stop bits	
c) CRC bits	
d) Data bits	

