Program: Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2016

Examination: Second Year Semester IV

Course Code: ECC405 and Course Name: Principles of Communication Engineering

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Angle modulation is type of
Option A:	Amplitude
Option B:	Frequency
Option C:	Phase
Option D:	Frequency &Phase
Q2.	Frequency Modulation is type of
Option A:	Frequency to Voltage Conversion
Option B:	Voltage to Frequency Conversion
Option C:	Phase to voltage Conversion
Option D:	Voltage to Phase Conversion
Q3.	Bandwidth of conventional AM is given by
Option A:	$f_{\rm m}^{2}$
Option B:	$f_{ m m}$
Option C:	$2f_{\rm m}$
Option D:	$2f_{\rm m}^2$
Q4.	Modulation index in FM is given by
Option A:	2fm
Option B:	$\Delta F/fm$
Option C:	$fm/\Delta f$
Option D:	4fm
Q5.	Narrow Band FM has Modulation Index
Option A:	<=1
Option B:	<=10
Option C:	<=100
Option D:	>=-1
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Q6.	Narrow Band FM has Bandwidth given by
Option A:	fm
Option B:	2fm
Option C:	2nfm

Option D:	4fm
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Q7.	Ideally FM have how many sidebands
Option A:	One
Option B:	Two
Option C:	hundred
Option D:	Infinite
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Q8.	Pulse Amplitude Modulation is which modulation technique
Option A:	Analog
Option B:	Analog Pulse
Option C:	Digital
Option D:	Digital Pulse
Q9.	PAM Signal is generated by using
Option A:	Natural Sampling
Option B:	Flat Top Sampling
Option C:	Natural Sampling & Flat Top Sampling
Option D:	Non uniform Sampling
Q10.	Which Pulse Modulation Scheme is least affected by noise
Option A:	PAM
Option B:	PWM
Option C:	PPM
Option D:	PWM &PPM
Q11.	To generate PWM by using 555 IC modulating signal voltage is applied to pin number
Option A:	1
Option B:	4
Option C:	5
Option D:	7
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Q12.	In sampling theorem If fs =fm the condition is called as
Option A:	Over Sampling
Option B:	Critical Sampling
Option C:	Under sampling
Option D:	Fast Sampling
Q13.	In sampling theorem aliasing effect occurred when
Option A:	fs< 2fm
Option B:	fs=2fm
Option C:	fs>2fm
Option D:	fs>=2fm

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Q14.	The role of Receiver is to
Option A:	select all the stations
Option B:	rejects all the stations
Option C:	Select desire station & reject all other station
Option D:	Select desire station & reject none
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Q15.	AM Bandwidth & Intermediate frequency are respectively
Option A:	10 KHz, 455 Hz
Option B:	200 KHz, 455 KHz
Option C:	10 KHz, 455 KHz
Option D:	200 KHz, 455MHz
option b.	200 1112, 1301/112
Q16.	If super heterodyne Receiver is tuned to 850 KHz, what is Local Oscillator
Q10.	frequency(fL)
Option A:	395 KHz
Option B:	1305 KHz
Option C:	1205KHz
Option D:	1405 KHz
Q17.	Which Pulse modulation technique is digital
Option A:	PAM
Option B:	PWM
Option C:	PPM
Option D:	PCM
Option B.	T CIVI
Q18.	The role of low pass filter(LPF) prior to Sampler in PCM is
Option A:	Aliasing filter
Option B:	Antialiasing filter
Option C:	Aliasing and Antialiasing filter
Option D:	Non-aliasing filter
option b.	Tion unusing lines
Q19.	The number of quantization level & binary bits per sample required
QIJ.	For encoding have the following relation
	To the same have the following lendron
Option A:	L=2n
Option B:	L= 2n-1
Option C:	L= 2n-2
Option D:	L= 2n-4
Spaint D.	
Q20.	Sampling of Band unlimited signal Result in
Option A:	Antialiasing
Option B:	Aliasing
Option C:	oversampling
Option D:	Undersampling

Q21.	The role of LPF as antialiasing filter is
Option A:	To convert the Band limited signal to band unlimited signal
Option B:	To convert the Band unlimited signal to band limited signal
Option C:	To allows to infinite frequencies
Option D:	To allows to zero frequencies
Q22.	Noise that affect the performance of PCM system is mainly classified as
Option A:	Channel noise
Option B:	Quantization noise
Option C:	Transient time noise
Option D:	Channel noise & Quantization noise
Q23.	Maximum Quantization error is given by
Option A:	$\Delta/2$
Option B:	$\Delta/4$
Option C:	Δ
Option D:	Δ^*2
Q24.	The major drawback of PCM system is to reduce quantization error
Option A:	Corresponding channel bandwidth is decreased
Option B:	Corresponding channel bandwidth is increased
Option C:	Corresponding channel bandwidth is constant
Option D:	Corresponding channel bandwidth is variable
Q25.	Quantizer characteristics can be of
Option A:	Midtread
Option B:	Midrise
Option C:	Midfall
Option D:	Midtread & Midrise