Program: BE Electrical Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

Course Code: EEC505 and Course Name: Communication Engineering (CE)

Time: 1 hour Max. Marks: 50

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

Q1.	Carson's rule is used to calculate _____
Option A:	Bandwidth of FM signal
Option B:	SNR
Option C:	Modulation index of FM signal
Option D:	Figure of merit
Q2.	What will be the effect on power if the modulation index of a frequency modulated signal is increased?
Option A:	increases
Option B:	Decreases
Option C:	remains constant
Option D:	first increases and then decreases
Q3.	What is the full form of PPM?
Option A:	Pulse-position modulation
Option B:	Pulse-pulse modulation
Option C:	Position-position modulation
Option D:	Position-pulse modulation
Q4.	The resonance frequency of an amplifier is 7MHz and it is having a bandwidth of 10KHz. What is its Q factor?
Option A:	7000
Option B:	70
Option C:	700
Option D:	7
Q5.	Maximum Amplitude of an amplitude modulated 10V and minimum amplitude is 5V. Find its modulation index?
Option A:	0.65
Option B:	0.9
Option C:	1

Option D:	0.33
Q6.	Which of the following components receives, translates the signal frequency and re-transmits the signal in a satellite?
Option A:	Repeater
Option B:	Relay
Option C:	Transponder
Option D:	Transducer
Q7.	The relation between entropy and mutual information is
Option A:	I(X;Y) = H(Y) - H(X)
Option B:	I(X;Y) = H(X) - H(Y)
Option C:	I(X;Y) = H(X) - H(X/Y)
Option D:	I(X;Y) = H(X/Y) - H(Y/X)
Q8.	Sine wave is a
Option A:	Periodic signal
Option B:	Aperiodic signal
Option C:	Deterministic signal
Option D:	Random signal
Q9.	The technique that may be used to increase average information per bit is
Option A:	Shannon-Fano algorithm
Option B:	ASK
Option C:	Digital modulation techniques
Option D:	FSK
Q10.	The expected information contained in a message is called
Option A:	Entropy
Option B:	Efficiency
Option C:	Coded signal
Option D:	Decoded signal
Q11.	Binary Huffman coding is a
Option A:	Prefix condition code
Option B:	Suffix condition code
Option C:	Prefix & Suffix condition code
Option D:	Cipher Coding
Q12.	Noise immunity of ASK is
Option A:	Greater than that of FSK
Option B:	Less than that of FSK
Option C:	Same as that of FSK
Option D:	Same as that of PSK
Q13.	A constellation diagram defines

Option A:	Amplitude of each symbol
Option B:	Amplitude and Frequency of each symbol
Option C:	Amplitude and Phase of each symbol
Option D:	Frequency of each symbol
Q14.	As the bit rate of an FSK signal increases, the bandwidth
Option A:	Remains the same
Option B:	Decreases
Option C:	Increases
Option D:	Doubles
Q15.	The maximum bandwidth is occupied by
Option A:	ASK
Option B:	BPSK
Option C:	FSK
Option D:	DPSK
Q16.	One of the following is not the advantage of digital system
Option A:	Less noise
Option B:	simple circuit
Option C:	more flexible
Option D:	less interference
Q17.	What is a fundamental period?
Option A:	Every interval of a periodic signal
Option B:	Every interval of an aperiodic signal
Option C:	The first interval of a periodic signal
Option D:	The last interval of a periodic signal
Q18.	Spectrum signal can be obtained by applying
Option A:	Fourier transform
Option B:	Norton's theorem
Option C:	BIBO stability
Option D:	KVL
Q19.	Which corrects the sampling time problem in a digital system?
Option A:	Interpolator
Option B:	Equalizer
Option C:	Decimator
Option D:	Filter
Q20.	cyclic codes are subset of the _____
Option A:	Linear code
Option B:	block code
Option C:	state code
Option D:	code word

Q21.	The code in convolution coding is generated using
Option A:	EX-OR logic
Option B:	AND logic
Option C:	OR logic
Option D:	NOR logic
Q22.	cyclic codes are well suited for _____
Option A:	Minimum distance
Option B:	error detection
Option C:	error reduction
Option D:	error distribution
Q23.	The block codes in which the message bits are transmitted in unaltered form is called as
Option A:	Systematic code
Option B:	Code words
Option C:	nonsystematic code
Option D:	binary code
Q24.	In Binary Phase Shift Keying system, the binary symbols 1 and 0 are represented by carrier with phase shift of
Option A:	Π/2
Option B:	Π
Option C:	2Π
Option D:	0
Q25.	In an optical fiber, the concept of Numerical aperture is applicable in describing the ability of _____
Option A:	Light Collection
Option B:	Light Scattering
Option C:	Light Dispersion
Option D:	Light Polarization

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	C
Q3.	A
Q4	C
Q5	D
Q6	C
Q7	C
Q8.	A
Q9.	A
Q10.	A
Q11.	A
Q12.	B
Q13.	C
Q14.	C
Q15.	C

Q16.	B
Q17.	C
Q18.	A
Q19.	A
Q20.	A
Q21.	A
Q22.	B
Q23.	A
Q24.	B
Q25.	A