QUIZ(CSE,Communication Systems, Theory-UNIT 1 & 2) (4C789)

Class-C-789, Subject Teacher: Dr. Himanshu Khanna, Time Duration: 20 min.

	An ergodic process (1 Point)
(is non-stationary for non-zero time-averages
(is always stationary
(may or may not be stationary
	An SSB modulation scheme uses following method of generation (1 Point)
(Phase-shift method
(Coherent method
(Square-law method
	A modulation index of more than 100 percent for an AM wave results in (1 Point)
(oversampling
(overmodulated signal

4. The 2nd simple moment of a random variable (r.v.) X defines the (1 Point)
variance of a r.v. X
mean-square value of a r.v. X
mean of a r.v. X
5. A probability density function for a continuous random variable is (1 Point)
positive & integral of cumulative distribution function
undefined
positive & derivative of cumulative distribution function
6. A single-tone sinusoidal modulating signal with fundamental frequency, 2000 Hz, amplitude modulates a carrier of frequency 1500 kHz. The upper & lower frequency edges are, resp., at (1 Point)
1504 kHz & 1496 kHz
1501 kHz & 1499 kHz
1502 kHz & 1498 kHz
7. An impulse response of the channel is (1 Point)
inverse Fourier transform of frequency response of channel
input response of channel to impulse input signal

better modulation

frequency response of channel to impulse input signal
8. 1-F(x) for random variable X, where F(x) is cumulative distribution function, defines probability (1 Point)
P(X
P(X>x)
P(x1
9. Low values of discharging time constant of envelope detector results in (1 Point)
d.c. signal
spiky baseband signal
diagonal clipping
10. A VSB-SC modulation has (1 Point)
a large carrier, & two sidebands containing information present
only two sidebands present
one full sideband & part of other sideband present
11. The system applying Hilbert Transformation has a frequency response, H(f), giver by (1 Point)
(1/j).sgn(f)

-(1/j).sgn(f)	
12. A linear channel has a response which is (1 Point)	
folded version of inputs	
sum of the responses from individual inputs	
delayed version of input	
13. For a zero-mean random variable (r.v.) X, the variance is equal to (1 Point)	Э
correlation of r.v. X	
mean of r.v. X	
mean-square value of r.v. X	
14. The 2nd central moment of a random variable (r.v.) X is given as (1 Point)	;
$\bigcirc (E[X])^2$	
$\bigcirc E[X]$	
15. A SSB-SC modulation has (1 Point)	
a carrier & sideband present	
single sideband present	
a fully suppressed carrier & two sidebands present	

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