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MULTIPLE CHOICE./Chaose the ope alternative that he discretion the characteristic in the complete of the characteristic in the complete of the characteristic in the ch

	-	vaves are combined through a	nonlinear device?
Answer: D			
Which of the following is con A) Resistor	sidered a nonlinear device? B) Transistor	C) Potentiometer	D) Capacitor
Answer: B			
3) Which of the following moduA) Low-level	lation techniques is the most B) High-level	economical? C) Ultra low-level	D) Medium-level
Answer: B			
4) If the % modulation of an AIV modulated current?	1 transmitter is 60% and the u	unmodulated antenna current	is 10 A, what is the
A) 11 A	B) 5 A	C) 14 A	D) 13 A
Answer: A			
5) If the carrier transmits 12 kW, A) 16 kW	, what is the modulated pow B) 14 kW	er from Problem 4? C) 12 kW	D) 10 kW
Answer: B			
used. B) Since all intelligence sig interference problems if	nd reception of radio waves	are not possible unless extrem the same frequency, there wo	-
7) Which of the following is not A) dc (0 Hz) B) The sum and difference C) The original two frequency D) Harmonics of the sum a	of the two original frequenc		
Answer: D			
8) A 2 kHz sinewave is mixed w not present in the output sign		ve through a nonlinear device	e. Which frequency is
A) 3 MHz	B) 1.498 MHz	C) 3.004 MHz	D) 1.502 MHz
Answer: C			
9) A 2.5 MHz carrier is modulate kHz. What is the range of fre A) 2.5 MHz to 2.505 MHz			
C) 2.495 MHz to 2.499 MH;	7	D) 2.495 MHz to 2.505 MH	7

Answer: B

B) results when the m	use it produces sideband spl odulation index exceeds unital to become distorted so that	ty.	ce a clean replica of the original
Answer: D			
watts. What is the carrie	r power?		lation is measured to be 1800
A) 1440 watts Answer: C	B) 2025 watts	C) 1600 watts	D) 900 watts
Allswell C			
12) A 250W carrier is to be m A) 356.3 watts	nodulated at an 85% modula B) 340.3 watts	tion level. What is the total t C) 183.7 watts	transmitted power? D) 430.6 watts
Answer: B			
13) An AM broadcast station 60%. What is the upper s		lowed output power of 80W	at a percent modulation of
A) 18.47 watts	B) 12.2 watts	C) 6.1 watts	D) 9.23 watts
Answer: C			
	on index expressed as a perc	centage is:	
A) 83.3%	B) 93.8%	C) 63.2%	D) 69.4%
Answer: B			
15) An intelligence signal is generate an AM signal. I final intelligence signal a	f it is desired to operate at 1		pined with a 250W carrier to be the dc input power to the
A) 192.3W	B) 162.5W	C) 83.3W	D) 384.6W
Answer: A			
B) when the intelligen antenna.	lications such as standard ra	rier at the last possible point	before the transmitting
47) TI	11 1.		
amplifier except for B) placing a negative t C) the process of adjus	ering out all of the undesired of the carrier, sum, and differ of feedback capacitor in an RF of sting the percent modulation	frequencies produced by mence frequencies. If the frequencies amplifier to reduce the tendent to its desired level in a module the transmitter produces the	ency for self-oscillation. Iulator stage.

10) Overmodulation:

Answer: B

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- A) a linear integrated circuit that creates AM with an absolute minimum of design considerations.
- B) an operational transconductance amplifier.
- C) a special type of op amp used to create an AM signal.
- D) all of the above.

Answer: D

- 19) The last stage of intelligence amplification before mixing with the carrier occurs in:
 - A) the RF linear amplifier.

B) the modulated amplifier

C) the buffer.

D) the modulator.

Answer: D

- 20) The equation defining the AM envelope is
 - A) $e = Ec \sin wc^*t$
 - B) e = Ei sin it + sin wc*t
 - C) e = Ec sin wc*t e = Ei sin wi*t
 - D) e = (Ec + Ei sin wi*t) sin wc*t
 - E) none of the above

Answer: D

- 21) The result of the trigonometric identity (sin x)(sin y) is
 - A) $0.5 \cos(x-y) 0.5 \cos(x+y)$
 - B) cos(x-y) cos(x+y)
 - C) $-0.5\cos(x-y) + 0.5\cos(x+y)$
 - D) $-0.5 \cos(x-y) + \cos(x+y)$
 - E) none of the above

Answer: A

- 22) The typical output impedance for an RF transmitter is
 - A) 50
 - B) 8
 - C) 16
 - D) 75
 - E) none of the above

Answer: A

- 23) Determine the side frequency voltage if the modulation index is 70% and the carrier amplitude is 50V.
 - A) 17.5
 - B) 50
 - C) 25
 - D) 35
 - E) none of the above

Answer: A