(c) Doubled

(d) Increased by 50 percent

King Fahd University of Petroleum and Minerals

University Diploma Programs Electronic Equipment Maintenance EET-029: Introduction to Communications Quiz # 1

Na	ame: ID #:
1.	In a communication system, noise is most likely to affect the signal:
	(a) At the transmitter
	(b) In the channel
	(c) In the information source
	(d) At the destination
2.	Indicate the false statement. Modulation is used to:
	(a) Reduce the bandwidth used
	(b) Separate differing transmissions
	(c) Ensure that intelligence may be transmitted over long distances
	(d) Allow the use of practicable antennas.
3.	In a low-level AM system, amplifiers following the modulated stage must be:
	(a) Linear devices
	(b) Harmonic devices
	(c) Class C amplifiers
	(d) Nonlinear devices
4.	If the carrier of a 100 percent modulated AM wave is suppressed, the percentage power saving will be:
	(a) 50
	(b) 150
	(c) 100
	(d) 66.66
5.	To provide two or more voice circuits with the same carrier, it is necessary to use:
	(a) ISB
	(b) Carrier reinsertion
	(c) SSB with pilot carrier
	(d) Lincompex
6.	The modulation index of an AM wave is changed from 0 to 1. The transmitted power is:
	(a) Unchanged
	(b) Halved

- 7. A carrier is simultaneously modulated by two sine waves with modulation indices of 0.3 and 0.4; the total modulation index:
 - (a) is 1
 - (b) cannot be calculated unless the phase relations are known
 - (c) is 0.5
 - (d) is 0.7
- 8. Indicate the false statement regarding the advantages of SSB over double sideband, full carrier AM:
 - (a) More channel space is available
 - (b) Transmitter circuits must be more stable, giving better reception
 - (c) The signal is more noise-resistant
 - (d) Much less power is required for the same signal strength