

King Fahd University of Petroleum and Minerals

University Diploma Programs Electronic Equipment Maintenance EET-029: Introduction to Communications Quiz # 2

Name: _____ ID #: _____

1. When the modulation index of an AM wave is doubled, the antenna current is also doubled. The AM system being used is:
 - (a) Single-sideband, full carrier
 - (b) Vestigial sideband.
 - (c) Single-sideband, suppressed carrier
 - (d) Double sideband, full carrier
2. Indicate which one of the following advantages of the phase cancellation method of obtaining SSB over the filter method is false:
 - (a) Switching from one sideband to the other is simpler
 - (b) It is possible to generate SSB at any frequency
 - (c) SSB with lower audio frequencies present can be generated
 - (d) There are more balanced modulators; therefore the carrier is suppressed better.
3. The most commonly used filters in SSB generation are:
 - (a) Mechanical
 - (b) RC
 - (c) LC
 - (d) Low-pass
4. In an SSB transmitter, one is most likely to find a:
 - (a) Class C audio amplifier
 - (b) Tuned modulator
 - (c) Class B RF amplifier
 - (d) Class A RF output amplifier
5. Indicate in which one of the following only one sideband is transmitted:
 - (a) H3E
 - (b) A3E
 - (c) B8E
 - (d) C3F

6. One of the following cannot be used to removed the unwanted sideband is SSB. This is the:
 - (a) Filter system
 - (b) Phase-shift method
 - (c) Third method
 - (d) Balanced modulator

7. R3E modulation is sometimes used to:
 - (a) Allow the receiver to have a frequency synthesizer
 - (b) Simplify the frequency stability problem in reception
 - (c) Reduce the power that must be transmitted
 - (d) Reduce the bandwidth required for transmission

8. Vestigial sideband modulation (C3F) is normally used for:
 - (a) HF point-to-point communications
 - (b) Monaural broadcasting
 - (c) TV broadcasting
 - (d) Stereo broadcasting