



## Electronics Engineering Objective Questions { Analog Communication System }

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**29. Which of the following statement regarding single-sideband (SSB) transmission is not correct?**

- A. in such transmission, only one sideband is transmitted, leaving off the other side-band and the carrier
- B. it has gained general acceptance for use in home-entertainment equipment
- C. it is generally reserved for point-to-point communication
- D. the amount of power and bandwidth necessary to be transmitted for a given amount of information are appreciably reduced.

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**30. Pilot-carrier transmission is one in which**

- A. only one sideband is transmitted
- B. one sideband and carrier are transmitted
- C. only two sidebands are transmitted
- D. two sidebands as well as a trace of carrier are transmitted

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**31. The main function of a balanced modulator is to**

- A. produce balanced modulation of a carrier wave
- B. produce 100% modulation
- C. suppress carrier signal in order to create a signal-sideband or double sideband
- D. limit noise picked by a receiver

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**32. The amplitude of an audio-signal is 10 and that of the carrier wave is 50. Percentage modulation is**

- A. 0.2
- B. 20
- C. 5
- D. 60

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**33. A bandwidth of 20 MHz is available for AM transmission. If the highest audio-frequency used to modulate the carrier waves is not to exceed 5 kHz, the number of stations that can broadcast simultaneously within this band without interfering with each other is**

- A.2,000
- B.4,000
- C.100
- D.4

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**34. The total power content of an AM signal with 100% modulation is 1200 W. Power being transmitted at each sideband is watt.**

- A.400
- B.800
- C.200
- D.300

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**35. If the power content of a carrier of an AM wave is 4 kW at a percentage modulation of 80%, power content of,each sideband is kW.**

- A.1.333
- B.0.64
- C.0.8
- D.0.667

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