

Analog Circuits

Important Bits For I MID Exam

1. What is the main function of a diode clipper circuit?

- a) To amplify a signal
- b) To limit the amplitude of a signal
- c) To shift the DC level of a signal
- d) To rectify a signal

2. Which of the following is NOT a common type of diode clipper circuit?

- a) Series clipper
- b) Shunt clipper
- c) Parallel clipper
- d) Combination clipper

3. What is the purpose of a clamping circuit?

- a) To limit the amplitude of a signal
- b) To shift the DC level of a signal
- c) To rectify a signal
- d) To amplify a signal

4. What is the typical output waveform of a clamping circuit?

- a) A sine wave
- b) A square wave
- c) A triangular wave
- d) A sawtooth wave

5. How can a clamping circuit be modified to produce a negative-going output?

- a) By reversing the polarity of the diode
- b) By adding a DC voltage source
- c) By changing the load resistor
- d) By using a different type of diode

DC Biasing of BJTs

6. What is the purpose of DC biasing a BJT?

- a) To set the operating point of the transistor
- b) To amplify the signal
- c) To rectify the signal
- d) To limit the amplitude of the signal

7. What is a load line?

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