

Power Electronics Quiz Questions and Answers Pdf

1. Operating point shift can occur in an amplifier due to which one of the following?
 - a. Input frequencies variation
 - b. Noise at the input
 - c. Parasitic capacitances
 - d. Power supply fluctuation

Ans: D

2. An ideal amplifier
 - a. Has positive feedback
 - b. Gives uniform frequency response
 - c. Has infinite voltage gain
 - d. Responds only to signals at its input terminals

Ans: D

3. A buffer amplifier has a gain of
 - a. Infinity
 - b. Zero
 - c. Unity
 - d. Dependent upon the circuit parameters

Ans: C

4. Thermal noise in a transistor amplifier is also known as
 - a. Shot noise
 - b. Schottky noise
 - c. Black noise
 - d. Johnson noise

Ans: D

5. To get higher cut off frequency in a BJT, base sheet resistance should be
 - a. Low
 - b. High
 - c. Equal to cut-off frequency

d. Zero

Ans: A

6. By increasing the number of identical stages in an amplifier, the gain bandwidth product

a. Decreases

b. Becomes unity

c. Remains constant

d. Increases

Ans: C

7. In case of amplifiers, which coupling gives the highest gain?

a. Transformer coupling

b. Resistance coupling

c. Impedance coupling

d. Capacitance coupling

As: A

8. The major advantages of dc amplifier is that it

a. Uses less number of components

b. Has very good temperature stability

c. Does not use frequency sensitive components

d. Can amplify direct current and low frequency signals

Ans: D

9. The output power of a power amplifier is several times its input power. This is possible due to the fact that

a. Step up transformer is used in the circuit

b. There is a positive feedback in the circuit

c. A negative resistance is introduced

d. Power amplifier converts a part of the input power into ac power

Ans: D

10. What is the purpose of impedance matching between the output of previous stage and input of next stage in a cascaded amplifier?

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- a. To achieve high efficiency
- b. To achieve maximum power transfer
- c. To achieve reduced distortion
- d. To achieve reduced noise

Ans: B

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