

Transistor Audio Power Amplifiers MCQ Test

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Q1. What is called the output stage of a multistage amplifier?

- A. F stage
- **B. Power stage**
- C. Mixer stage
- D. Detector stage

Q2. Which of the following coupling is generally employed in power amplifiers?

- A. RC
- B. Direct
- C. Impedance
- **D. Transformer**

Q3. A class a power amplifier uses

- **A. One transistor**
- B. Two transistors
- C. Three transistors
- D. None of the above

Q4. The maximum efficiency of resistance loaded class a power amplifier is

- A. 5%

- **B. 25%**
- C. 30%
- D. 50%

Q5. Which of the following class power amplifier has the highest collector efficiency?

- A. A
- B. B
- **C. C**
- D. AB

Q6. Power amplifiers handle signals compare to voltage amplifiers.

- A. Dual
- B. Differential
- **C. Push-pull**
- D. Symmetrical

Q7. Which kind of coupling is the most costly coupling?

- A. RC
- B. Direct
- C. Impedance
- **D. Transformer**

Q8. What is the maximum collector efficiency of class B operation?

- A. 60.50%
- B. 25%
- **C. 78.50%**
- D. 90%

Q9. When no signal is applied, the approximate collector efficiency of class a power amplifier is

- **A. 0%**
- B. 10%
- C. 25%
- D. 50%

Q10. Power amplifiers generally use transformer coupling because transformer permits.....

- A. Distortionless output
- B. Cooling of the circuit
- **C. Impedance matching**
- D. None of the above

Q11. The disadvantage of impedance matching is that it

- **A. Gives distorted output**
- B. Requires a transformer
- C. Gives low power output
- D. None of the above

Q12. low efficiency of a power amplifier results in

- A. Low forward bias
- B. Less battery consumption
- **C. More battery consumption**
- D. None of the above

Q13. The output transformer used in a power amplifier is a transformer

- A. 1:1 ratio
- B. Step-up
- **C. Step-down**
- D. None of the above

Q14. A 2-transistor class B power amplifier is commonly called the

- A. Dual Amplifier
- **B. Push-pull Amplifier**

- C. Differential Amplifier
- D. Symmetrical Amplifier

Q15. The size of a power transistor is made considerably large to

- **A. Dissipate heat**
- B. Provide easy handling
- C. Facilitate connections
- D. None of the above

Q16. What is the most important consideration in a power amplifier?

- **A. Collector efficiency**
- B. Biasing the circuit
- C. To keep the transformer cool
- D. All of the Above

Q17. An AF amplifier is shielded to prevent induction due to stray magnetic fields.

- **A. True**
- B. False

Q18. Which of the following device was used for the amplification of audio signals before the invention of power amplifiers?

- A. SCR
- B. Diode
- C. Op-amp
- **D. Vacuum tubes**

Q19. What does the power amplifier directly amplifies?

- A. Voltage of signal
- B. Power of the signal
- C. Current of the signal
- **D. All of the above**

Q20. audio speaker will be hard to be driven by a power amplifier.

- **A. 2ohm**
- B. 4ohm
- C. 8ohm
- D. 12ohm

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