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## Single Stage Transistor Amplifiers MCQ Test

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Below is the **Single Stage Transistor Amplifiers MCQ** test that checks your basic knowledge of Single Stage Transistor Amplifiers. This **Single Stage Transistor Amplifiers MCQ** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Apart from this, you can also download **Single Stage Transistor Amplifiers MCQ PDF** completely free.

**Q1. The input capacitor in an amplifier is the \_\_\_\_ capacitor.**

- **A. Coupling**
- B. Bypass
- C. Leakage
- D. None of the above

**Q2. What is the purpose of capacitors in a transistor amplifier?**

- A. Protect the transistor
- B. Cool the transistor
- **C. Couple or bypass a.c. component**
- D. Provide biasing

**Q3. What is the purpose of d.c. conditions in a transistor?**

- A. Reverse bias the emitter
- B. Forward bias the collector
- **C. Set up operating point**
- D. None of the above

**Q4. What is the purpose of coupling capacitor in a transistor amplifier?**

- A. Increase the output impedance of transistor

- B. Protect the transistor
- C. Pass a.c. and block d.c.
- D. Provide biasing

**Q5. What is the purpose of of emitter capacitor (i.e. capacitor across RE)?**

- A. Avoid voltage gain drop
- B. Forward bias the emitter
- C. Reduce noise in the amplifier
- D. None of the above

**Q6. A CE amplifier is also called \_\_\_\_ circuit.**

- A. Grounded emitter
- B. Grounded base
- C. Grounded collector
- D. None of the above

**Q7. In transistor amplifiers, we generally use \_\_\_\_ capacitors.**

- A. Electrolytic
- B. Mica
- C. Paper
- D. Air

**Q8. A transistor converts d.c. power into a.c. power.**

- A. True
- B. False

**Q9. If the input capacitor of a transistor amplifier is short-circuited, then \_\_\_\_.**

- A. Transistor will be destroyed
- B. Biasing conditions will change
- C. Signal will not reach the base
- D. None of the above

**Q10. If a transistor amplifier feeds a load of low resistance (e.g. speaker), then voltage**

gain will be low.

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

**Q11. When a transistor amplifier is operating, the current in any branch is \_\_\_\_\_.**

- **A. Sum of a.c. and d.c.**
- B. difference of a.c. and d.c.
- C. product of a.c. and d.c.
- D. None of the above

**Q12. A transistor amplifier has high output impedance because \_\_\_\_.**

- A. Emitter is heavily doped
- **B. Collector has reverse bias**
- C. Collector is wider than emitter or base
- D. None of the above

**Q13. What do you mean by the Operating point?**

- **A. The point of intersection of d.c. and a.c. load lines**
- B. The sum of d.c. and a.c. load
- C. The product of d.c. and a.c. load lines is called
- D. None of the above

**Q14. Is the slope of a.c. load line is more tahn that of d.c. load line?**

- **A. Yes**
- B. No

**Q15. If a transistor amplifier draws 2mA when input voltage is 10 V, then its input impedance is \_\_\_\_.**

- A. 20 k?
- B. 2 k?
- C. 10 k?
- **D. 5 k?**

**Q16. What does single stage transistor amplifier contains?**

- **A. One transistor and associated circuitry**
- B. Two transistor and associated circuitry
- C. Multi transistor and associated circuitry
- D. None of the above

**Q17. The value of collector load RC in a transistor amplifier is \_\_\_ the output impedance of the transistor.**

- A. The same as
- **B. Less than**
- C. More than
- D. None of the above

**Q18. For highest power gain, one would use \_\_\_ configuration.**

- A. CC
- B. CB
- **C. CE**
- D. None of the above

**Q19. CC configuration is used for impedance matching because its \_\_\_.**

- **A. Input impedance is very high**
- B. Input impedance is low
- C. Output impedance is very low
- D. None of the above

**Q20. In order to get more voltage gain from a transistor amplifier, the transistor used should have \_\_\_\_.**

- **A. Thin base**
- **B.** Thin collector
- **C.** Wide emitter
- **D.** None of the above

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