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Transistors MCQ Test

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Q1. What are the most commonly used connections for power systems as a step - up and step - down transformers?

- **A. Star - delta, delta - star**
- B. Star - star, delta - delta
- C. Delta - star, star - delta
- D. Star - delta, star - star

Q2. What do you mean by transistor?

- **A. a semiconductor device**
- B. current
- C. voltage
- D. None of these

Q3. Is holes are the majority charge carriers in npn transistor?

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

Q4. The emitter is ____.

- A. lightly doped
- **B. heavily doped**
- C. equally

- D. All of the above

Q5. The generalized formula for the input impedance of any circuit is ____.

- A. $Z_{IN} = V_{IN}/I_{IN}$
- B. $V=IR$
- C. $IN=R$
- D. All of the above

Q6. Which of the among are the types of transistors?

- A. Bipolar Junction Transistors (BJT)
- B. Field Effect Transistors (FET)
- C. Both A and B
- D. None of the above

Q7. In npn transistor, free electrons are the ____.

- A. equal charge carriers
- B. majority charge carriers
- C. minority charge carriers
- D. None of the above

Q8. BJT stands for ____.

- A. Bi-Junction Transfer
- B. Blue Junction Transistor
- C. Bipolar Junction Transistor
- D. Base Junction Transistor

Q9. Transistors are generally made from ____.

- A. silicon
- B. iron
- C. copper
- D. None of the above

Q10. In amplifier circuit, biasing of transistor is necessary to ____.

- **A. fix the value of current amplification**
- B. establish suitable D.C. working conditions
- C. ensure that transistor is saturated
- D. ensure that transistor is cutoff

Q11. The emitter-base junction of a transistor is ____ Biased while the collector-base junction is ____.

- A. Reverse, Forward
- B. Reverse, Reverse
- C. Forward, forward
- **D. Forward, reverse**

Q12. The power gain is highest in Common emitter.

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

Q13. In a transistor, signal is transferred from a _____ circuit.

- A. high resistance to low resistance
- **B. low resistance to high resistance**
- C. high resistance to high resistance
- D. low resistance to low resistance

Q14. The output impedance of a transistor is _____.

- **A. high**
- B. zero
- C. very low
- D. low

Q15. The input impedance of a transistor is _____.

- **A. high**

- B. almost zero
- C. low
- D. very high

Q16. As the temperature of a transistor goes up, the base-emitter resistance ____.

- A. decreases
- B. Increases
- C. remains the same
- D. None of the above

Q17. For the BJT circuit shown, assume that the β of the transistor is very large and $V_{BE} = 0.7$ V. The mode of operation of the BJT is ____.

- A. cut-off
- B. saturation
- C. normal active
- D. reverse active

Q18. A transistor is a semiconductor device used to amplify or switch electronic signals and electrical power.

- A. True
- B. False

Q19. The name transistor is derived from ____ that means the resistance is changed.

- A. “ten resistor”
- B. “transfer run”
- C. “transfer resistor”
- D. None of the above

Q20. Is Transistor is same as the Vacuum tube?

- A. Yes
- B. No

Q21. A transistor has

- A. one pn junction
- **B. two pn junctions**
- C. three pn junctions
- D. None of above

Q22. The number of depletion layers in a transistor is

- A. 1
- B. 2
- C. 3
- **D. 4**

Q23. The base of a transistor is doped.

- A. heavily
- **B. lightly**
- C. moderately
- D. None of the above

Q24. The element that has the biggest size in a transistor is

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

Q25. In a pnp transistor, the current carriers are

- **A. holes**
- B. donor ions
- C. acceptor ions
- D. free electrons

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