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Solid State Switching Circuits MCQ Test

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Below is the **Solid State Switching Circuits MCQ** test that checks your basic knowledge of Solid State Switching Circuits. This **Solid State Switching Circuits MCQ** contains 20 Multiple Choice Questions. You have to select the right answer to the question. apart from this, you can also download here **Solid State Switching Circuits MCQ PDF**, completely free.

Q1. What do you mean by solid state relay (SSR)?

- **A. electronic switching device**
- B. complete state
- C. motion
- D. None of the above

Q2. What is relay?

- **A. An electromechanical switch**
- B. A mechanical switch
- C. An electronic switch
- D. All of the above

Q3. If the input to an integrating circuit is a succession of alternating positive and negative pulses of very short duration, the output will be ____ wave.

- A. Rectangular
- B. Triangular
- C. Sine
- **D. Square**

Q4. One would find a clamping circuit in ____.

- A. Receiving antenna
- B. Radio transmitter
- C. Radio receiver
- **D. Television receiver**

Q5. When a transistor is used as an amplifier, it is operated in the active region.

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

Q6. A bistable multivibrator has _____?

- A. One stable state
- **B. Two stable states**
- C. No stable state
- D. None of the above

Q7. A monostable vibrator has ____.

- A. No stable state
- **B. One stable state**
- C. Two stable states
- D. None of the above

Q8. The switch that has the fastest speed of operation is _____ switch?

- **A. Electronic**
- B. Mechanical
- C. Electromechanical
- D. None of the above

Q9. A relay is superior to a mechanical switch because it ____.

- A. Is relatively inexpensive
- B. Does not require moving contacts
- **C. Combines control with power amplification**
- D. None of the above

Q10. If the input to a differentiating circuit is a saw-tooth wave, then output will be ____.

- A. Square
- B. Sine
- C. Rectangular
- D. Triangular

Q11. When a transistor is driven to saturation, ideally the output is __.

- A. 0
- B. VCC
- C. 2VCC
- D. VCC/2

Q12. The positive clipper is that which removes the positive half-cycles of the input voltage.

- A. True
- B. False

Q13. A negative clipper removes the _____ half-cycles of the input voltage.

- A. negative
- B. positive
- C. Both A and B
- D. None of the above

Q14. What is the full form of TRIAC?

- A. Triode for Alternating current
- B. Tri for Alternating current
- C. Triode for Alternating counter
- D. Tri for Alternating counters

Q15. TRIAC is a unipolar switch.

- A. True

- **B. False**

Q16. __ multivibrator is a square wave oscillator.

- A. Monostable
- **B. Astable**
- C. Bistable
- D. None of the above

Q17. In a multivibrator, we have _____ feedback.

- A. Negative
- **B. 100 % positive**
- C. Both positive and negative
- D. None of the above

Q18. Is Packaged solid-state relays use power semiconductor devices such as thyristors and transistors, to switch currents up to around a hundred amperes?

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

Q19. An integrating circuit is a simple RC series circuit with output taken across:

- **A. C**
- B. R
- C. Both R and C
- D. None of the above

Q20. CMOS stands for ____.

- **A. Complementary metal–oxide–semiconductor**
- B. Common metal–oxide–semiconductor
- C. Complementary material–oxide–semiconductor
- D. Complementary metal–oxygen–semiconductor

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