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## Semiconductor Diode MCQ Questions

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**Q1. A crystal diode has \_\_\_\_.**

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

**Q2. The reverse current in a diode is of the order of \_\_\_\_.**

- A. kA
- B. mA
- **C.  $\mu$ A**
- D. A

**Q3. A crystal diode is used as \_\_\_\_.**

- A. an amplifier
- **B. a rectifier**
- C. an oscillator
- D. a voltage regulator

**Q4. The d.c. resistance of a crystal diode is \_\_\_\_ its a.c. resistance.**

- A. the same as
- B. more than
- **C. less than**

- D. none of the above

**Q5. If the temperature of a crystal diode increases, then leakage current \_\_\_\_\_.**

- A. remains the same
- B. decreases
- C. **increases**
- D. becomes zero

**Q6. The knee voltage of a crystal diode is approximately equal to \_\_\_\_\_.**

- A. applied voltage
- B. breakdown voltage
- C. forward voltage
- D. **barrier potential**

**Q7. When the crystal current diode current is large, the bias is \_\_\_\_\_.**

- A. inverse
- B. **forward**
- C. poor
- D. reverse

**Q8. What is crystal diode?**

- A. **non-linear device**
- B. bilateral device
- C. linear device
- D. none of the above

**Q9. What is the use of crystal diode?**

- A. **A crystal diode utilises forward characteristic for rectification.**
- B. A crystal diode utilises similar characteristic for rectification.
- C. A crystal diode utilises backward characteristic for rectification.
- D. None of the above

**Q10. Which one is the most important consideration when a crystal diode is used as a**

**rectifier?**

- **A. PIC rating**
- B. forward characteristic
- C. doping level
- D. reverse characteristic

**Q11. Which type of diode is used as a voltage regulator?**

- A. an amplifier
- **B. zener diode**
- C. a rectifier
- D. a multivibrator

**Q12. A series resistance is connected in the zener circuit to protect the zener?**

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

**Q13. Mains a.c. power is converted into d.c. power for \_\_\_\_\_.**

- A. lighting purposes
- **B. using in electronic equipment**
- C. heaters
- D. All of the above

**Q14. What is the disadvantage of half-wave rectifiers?**

- **A. It produces a low output voltage.**
- B. components are expensive
- C. pulse
- D. None of the above

**Q15. The ripple factor of a half-wave rectifier is equal to \_\_\_\_\_.**

- A. 2
- **B. 1.21**
- C. 2.5

- D. 0.48

**Q16. If the PIV rating of a diode is exceeded than \_\_\_\_\_.**

- A. the diode conducts poorly
- B. the diode behaves like a zener diode
- C. **the diode is destroyed**
- D. None of the above

**Q17. Which filter circuit results in the best voltage regulation?**

- A. capacitor
- B. **choke input**
- C. input resistance
- D. none of the above

**Q18. What is the maximum efficiency of a half-wave rectifier?**

- A. **40.6 %**
- B. 81.2 %
- C. 50 %
- D. 25 %

**Q19. Bridge full-wave rectifier is the most widely used \_\_\_\_\_.**

- A. **rectifier**
- B. half-wave rectifier
- C. centre-tap full-wave rectifier
- D. None of the above

**Q20. The PIV rating of each diode in a bridge rectifier is \_\_\_\_\_ that of the equivalent centre-tap rectifier.**

- A. one-half
- B. the same as
- C. twice four times
- D. one-half