

11. The velocity of an oscillating charge as it moves to and fro along a wire is always

- A. constant
- B. zero
- C. changing
- D. infinite

Answer: Option C

12. Which one of following band is completely filled in case of conductors?

- A. Conduction band
- B. Fermi band
- C. Valence band
- D. Forbidden band

Answer: Option A

13. Which one of the following has the greatest energy gap?

- A. insulator
- B. conductor
- C. semi conductor
- D. any of above

Answer: Option A

14. The value of resistivity for insulator is of the order of

- A. 10^5 ohm metre
- B. 10^6 ohm metre
- C. 10^7 ohm metre
- D. 10^8 ohm metre

Answer: Option D

15. Thermions are

- A. protons
- B. positrons
- C. electrons
- D. photons

Answer: Option C

16. Hole is equivalent to

- A. a negative charge
- B. a positive charge

C. a neutral particle

D. an electron

Answer: Option **B**

17. Which one of the following is not a donor impurity?

A. antimony

B. phosphorus

C. aluminium

D. arsenic

Answer: Option **C**

18. Forward current through a semi conductor diode circuit is due to

A. minority carriers

B. majority carriers

C. holes

D. electrons

Answer: Option **B**

19. In the transistor schematic symbol, the arrow

A. is located on the emitter

B. is located on the base

C. is locate on the collector

D. points form north to south

Answer: Option **A**

20. The symbol of n-p-n transistor is

Answer: Option **D**