## Electrical Power, Work, Energy MCQ Questions & Answers Pdf

1. A constant voltage is applied between two ends of a uniform metallic wire. Some heat is
developed. If both length and radius of wire are halved, the heat developed in the same
duration is

- a. half
- b. twice
- c. one fourth
- d. same

Ans: A

- 2. An electric fan and a heater are marked as 100 W, 220 V and 1000 W, 220 V respectively. The resistance of heater is
- a. zero
- b. greater than that of fan
- c. less than that of fan
- d. equal to that of fan

Ans: C

- 3. A constant voltage is applied between the two ends of a metallic wire of uniform area of cross section. Some heat is developed. The heat is doubled if
- a. both length and radius are halved
- b. both length and radius are doubled
- c. the radius of wire is doubled
- d. the length of wire is doubled

Ans: B

- 4. What is immaterial for a fuse?
- a. its resistivity
- b. its radius

c. its length d. none of the above Ans: C 5. Appliances based on heating effect of current work on a. d.c. only b. a.c. only c. both d.c. and a.c. d. none of the above Ans: C 6. A fuse wire is made of a. copper b. tungsten

c. lead tin alloy

d. nichrome

Ans: C

7. Fuse wire is a wire of

neithnotes.com a. high resistance and low melting point

b. high resistance and high melting point

c. low resistance and low melting point

d. low resistance and high melting point

Ans: A

8. Lamps used for house lighting are connected in

a. series

b. parallel

c. mixed grouping

d. arbitrary manner Ans: B 9. Two electrical appliances are connected in parallel to a constant voltage supply. If current in one appliance is less than the second appliance by 1%, then power of the first alliance will be less by a. 1% b. 2% c. 4% d. 5% Ans: A 10. A constant voltage is applied across the ends of a conductor. The heat produced is c. directly proportional to square of length d. none of above

Ans: B