## SE Coaching for Mathematics and Science

CLASS-X

## SUBJECT - SCIENCE (ELECTRICITY)

- Test Paper 1. How are different electric appliances connected in a house?(1)
- 2. What is the resistance of an ideal ammeter?
- 3.A wire of resistivity rho is stretched to double its length. What will be its new resistance?
- 4. What is the law of combination of resistances in parallel?
- 5. What is the other name of electric potential?
- 6. Give the symbol of fixed resistance and variable resistance.
- 7. Define the unit of resistance
- 8.1 m V is equal to
- (a) 1 volt (b) 1000 volt
- (c) 1/1000 volt
- (d)1/10000 volt
- 9. The equivalent resistance between A and B is
- (a)1 ohm
- (b) 2 ohm

- (c) 1.5 ohm
- (d) 6 ohm

- 10. Which of the following charge is not possible?
- (a) 1.6 x 10 C
- (b) 0.2 x10 C (c) 0.35 x 10 C

(d) 0.1 x1.6 x10

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- 11. What happens if the pd across a resistance is doubled?
- 12.On what factors does resistivity of material depend?

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- 13. Name two special characteristics of heater coil.
- 14. 10 electrons are removed from a neutral body. The charge acquired by a body is
- (a) 1.6 x 10 C(B)1.6 X 10 C

(C) -1.6 X10 C

10 C

- 15. Why resistance is less in parallel combination?(1)
- 16. State and derive ohm,s law.(2)
- 17. What is the cause of resistance?(2)
- 18. Differentiate between resistor and resistance.(2)
- 19. Calculate the energy consumed in 20 days, if two bulbs of 30 w work for 6 hrs, three fans of 80 w work for 10 hrs daily and one tube of 60 w works for 3 hrs daily.(3)
- 20. Calculate the equivalent resistance in the given circuit(3)
- 21. Which is better series combination or parallel combination in electric circuit and why?(3)
- 22. What do you mean by the potential difference? Write and define its unit.(3)
- 23. Calculate the potential difference, if there are 5000 charge carrier are flowing for 10 min through a resistance of 100 ohm. (3)
- 24. Calculate the ratio of series to parallel combination if there are n number of resistances. (3)
- 25. What will be the new resistance if a wire of resistance 80 ohm is bent into a circular form?(1)