
Subject : Science

Class : X

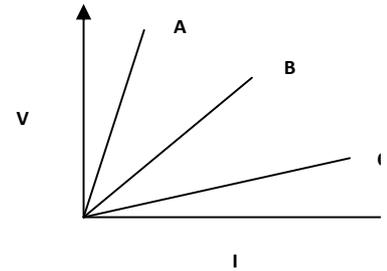
- Q1. What is the chemical name of baking soda? Give formula also. (1)
- Q2. Why POP should be stored in a moisture proof container? (1)
- Q3. Name the largest artery in human body. (1)
- Q4. Name the metal which is least reactive and silvery white. (1)
- Q5. Sweet tooth leads to tooth decay. Explain. What is the role of tooth paste in tooth decay? (2)
- Q6. When water is added to a white powder 'A', vigorous reaction takes place and a large amount of heat is released. Compound A is also used in white washing. Identify A, Give its chemical reaction and name the product. (2)
- Q7. Why copper turns to green when left in open? Give chemical equation also. (2)
- Q8. Why ice cream vendor adds common salt to ice to make ice cream. State the reason by giving chemical equation. (2)
- Q9. What is a good source of energy? Give one example of good source of energy. (2)
- Q10. State two disadvantages of Hydro Power Plants? (2)
- Q11. Why is series arrangement not used for domestic circuits? (2)
- Q12. Why are coils of electric toasters and electric irons made of an alloy rather than a pure metal? (2)
- Q13. Discuss how brain and spinal cord is protected. (3)
- Q14. Predict the nature of following salts by hydrolysing them, and give chemical equations: (3)
- a) Sodium chloride.
 - b) Magnesium sulphate.
 - c) Potassium carbonate.
- Q15. Name the acid found in the following: (3)
- a) Curd.
 - b) Bee's sting.
 - c) Lemon juice.
- Q16. The atomic number of F, Na and Ne are 9, 10 and 11. Why Na and F are very reactive and

- Ne shows almost no reactivity? (3)
- Q17. Draw a labelled diagram of a biogas plant and label any three parts. (3)
- Q18. The SI unit of a Physical quantity is Ohm. Name the physical quantity. What are the two factors on which it depends? (3)
- Q19. i. Give the commercial unit of electrical energy. (3)
- ii. An electric Iron of resistance $20\ \Omega$ takes a current of 5 A. Calculate the heat developed in 30 s.
- Q20. State three factors on which magnetic field of a current carrying coil depends. (3)
- Q21. Write the functions of the following in the digestive process:
- i) HCl ii) Bile ii) Pancreatic amylase
(3)
- Q22. Name the two hormones secreted by pancreas. Write the function of each hormone named. (3)
- Q23. Give reasons for the following. (3)
- i) Glottis is covered by epiglottis.
- ii) Lung alveoli are covered with blood capillaries.
- iii) The walls of trachea is supported by cartilage rings.
- .Q24. Give reasons for the following: (5)
- i) M.P. and B.P. of ionic compounds are high.
- ii) Tarnished copper vessels are cleaned with tamarind juice.
- iii) A sulphide ore is converted into its oxide to extract the metal.
- iv) Galvanisation is the better method of prevention than painting.
- v) Chips packets are flushed with nitrogen gas.

OR

- Explain how the following metal is obtained from their compounds by the process of reduction:
- a) Name the metal which is in the middle of the reactivity series of metals..
- b) Give the name and formula of its ore.
- c) Give the chemical reactions involved.and name them.
- d) In the electrolytic refining of metal M, name the cathode, anode and electrolyte.
- Q25. Draw the diagram of cross section of a leaf and label the following in it : (5)

Q38. A student performs an experiment and plots the following graph for the two resistors R_1 and R_2 and their Parallel combination. Which graph represents the Parallel combination?



- a) A
- b) B
- c) C
- d) None of above

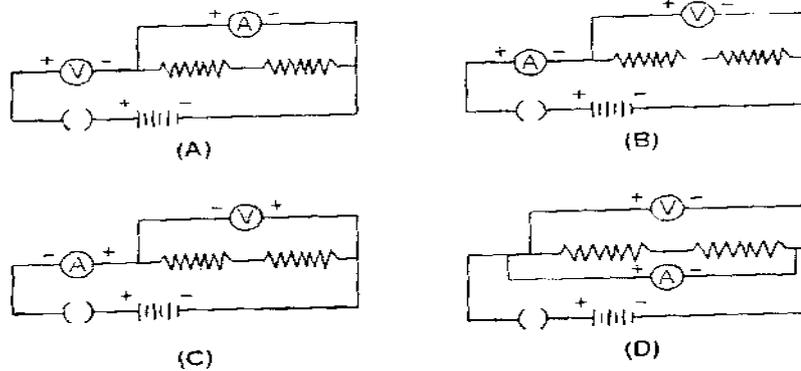
Q39. In an Ammeter, there are 5 divisions between 0 mark and 0.5 V mark. The least count of the voltmeter is

- a) 0.5 A
- b) 0.1 A
- c) 0.2 A
- d) 0.3 A

Q40. When two or more resistors are connected in Parallels, the physical quantity that remains same is

- a) Resistance
- b) Current
- c) Potential difference
- d) All of these

Q41. To determine the equivalent resistance of two resistors when connected in series, the correct way of connecting the ammeter and voltmeter in the circuit is

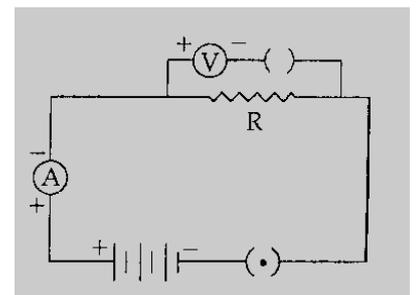


Q42. The Voltmeter is always connected in

- a) Series with the device across which potential difference is to be measured
- b) Parallels with the device across which potential difference is to be measured
- c) Either in series or in parallels.
- d) None of above

Q43. For the circuit arrangement shown in the given figure, the student would observe

- a) No reading in either the ammeter and the voltmeter
- b) Some reading in both the ammeter and the voltmeter
- c) No reading in the ammeter and some reading in the voltmeter



- d) Some reading in the ammeter and no reading in the voltmeter

Q44. The given wire made of material resistivity ' ρ ' is stretched to triple its length. The new resistivity of the wire is;

- a) ρ
- b) 2ρ
- c) 3ρ
- d) 4ρ

Q45. The SI unit of a physical quantity is Ampere. The physical quantity is

- | | |
|-------------------------|-----------------|
| a) Charge | b) Current |
| c) Potential difference | d) All of these |