CENTRAL PUBLIC SCHOOL

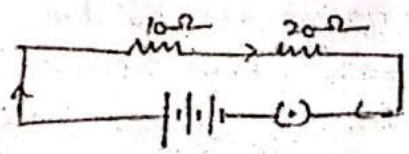
Subject – Science | **TAJPUR ROAD, SAMASTIPUR** | **Time- 3 Hrs.**

Class – X | **MID TERM EXAM- 2019** | **F. M. – 80**

General Instructions: Question 1-20 (1 Marks), 21-30 (3 Marks) 31-36 (5 Marks)

1. Write two characteristics associated with rancid food.
2. On what basis is a chemical equation balanced.
3. What effect does the concentration of H^T have on the acidic nature of the solution?
4. What is aqua regia?
5. Write chemical equations that shows aluminium oxide reacts with acid as well as base.
6. Which of the following listed metals can displace zinc from its salt solution? Give reason of your answer. Copper, Lead, Magnesium, Silver.
7. How is an ammeter connected in a circuit to measure current flowing through it?
8. What happens to resistance of a conductor when its area of cross section is increased?
9. Write S.I unit of resistivity.
10. What is the direction of magnetic field lines inside and outside a bar magnet?
11. Give one difference between the wires used in the element of an electric heater and in a fuse.
12. Why wind energy forms can be established only at specific locations?
13. What is a solar panel?
14. Why is anaerobic respiration less efficient?
15. Which pancreatic enzyme is effective in digesting proteins?
16. Why are the walls of ventricles thicker than the auricle?
17. Why is the urine yellow in colour?
18. Write the function of gustatoreceptor.
19. What are 'releasing hormones'?
20. Name an organism which reproduces by spore formation.
21. Study the following electric circuit and find (i) the current flowing in the circuit and (ii) the potential difference across. 10Ω resistor.

Pd₂ 4·5 V



22. Series arrangements are not used for domestic circuits. List any three reasons.
23. How does the strength of magnetic field produced by a current carrying solenoid increased?

2) 3(P·S

24. List three advantages of using bio-gas over fossil fuels.

25. What is meant by (a) Precipitation reaction (b) exothermic reaction (c) oxidation reaction. Write balanced chemical equation for each.

26. What is baking soda chemically called? Give reactions involved in its preparation. Write one of its uses

27. What is cinnabar? How is metal extracted from cinnabar? Explain briefly.

28. Explain the process of breakdown of glucose in a cell.

    a. In the presence of oxygen.

    b. In the absence of oxygen.

29. What is synapse? In a neuron cell how is an electrical impulse created and what is the role of synapse in this context?

30. What is DNA copying? State its importance.

31. Differentiate between roasting and calcination. Explain the two with help of suitable chemical equations. How is zinc extracted from its ore?

32. A student dropped a few pieces of marble in dilute hydrochloric acid, contained in a test tube. The evolved gas was then passed through lime water. What change would be observed in lime-water? What will happen if excess of gas is passed through lime water? With the help of balanced chemical equation for all the changes explain the observations.

33. (a) Draw a schematic labeled diagram of a domestic circuit. Which has a provision of main fuse, meter, one bulb and a socket.

    (b) Why fuse wire is made of a ten-lead alloy and not copper?

34. Which power plant is better:- Coat based or Natural gas based?

35. Define 'hormones'. Name the hormone secreted by thyroid gland. Write its function. Why is the use of iodised salt advised to us?

36. With the help of a diagram. Explain the different stages of binary fission in Amoeba.