

## VGR COACHING CENTER

CLASS-IX

SCIENCE

MARK-75

1. Which of the following converts electrical energy into mechanical energy?
  - a) Motor b) Battery c) Generator d) Switch
2. Transformer works on
  - a) AC only b) DC only c) Both AC and DC
3. Rubbing of comb with hair
  - a) creates electric charge b) transfers electric charge
  - c) either (a) or (b) d) neither (a) nor (b)
4. Electric field lines from positive charge and in negative charge.
  - a) start; start b) start; end c) start: end d) end; end
5. Bond formed between a metal and non metal atom is usually \_\_\_\_\_
  - a) ionic bond b) covalent bond c) coordinate bond
6. \_\_\_\_\_ compounds have high melting and boiling points.
  - a) Covalent b) Coordinate c) Ionic
7. Apple contains malic acid. Orange contains (citric acid, ascorbic acid).
8. Acids in plants and animals are organic acids. Whereas Acids in rocks and minerals are (Inorganic acids, Weak acids).
9. Stomach of human beings mainly digests \_\_\_\_\_
  - a. carbohydrates b. proteins c. fat d. sucrose
10. To prevent the entry of food into the trachea, the opening is guarded by \_\_\_\_\_
  - a. epiglottis b. glottis c. hard palate d. soft palate
11. The sprouting of onion and potatoes can be delayed by the process of \_\_\_\_\_
  - a) freezing b) irradiation c) salting d) canning
12. Food and Adulteration Act was enforced by Government of India in the year \_\_\_\_\_
  - a) 1964 b) 1954 c) 1950 d) 1963

## PART-B WRITE ANY 7

## Q.NO 22 IS COMPULSORY

13. Match the following.

Electric charge (a) ohm

Potential difference (b) ampere

Electric field (c) coulomb

Resistance (d) newton per coulomb

Electric current (e) volt

14. Define electric current and give its unit.

15. State Fleming's Left Hand Rule.

16. Write a note on different types on bonds.

17. Sulphuric acid is called King of Chemicals. Why is it called so?

18. Mention any two vital functions of human kidney.

19. What is micturition?

20. What is an adulterant?

21. Abbreviation

a. ISI \_\_\_\_\_

b. FPO \_\_\_\_\_

c. AGMARK \_\_\_\_\_

d. FCI \_\_\_\_\_

22. Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5 A.

## PART-C ANY 7

## Q.NO 32 IS COMPULSORY

23. a. State Ohm's law

b. List the safety features while handling Electricity

24. a. State the advantages of ac over dc.

b. Differentiate step up and step down transformer

25. a. Explain Octet rule with an example.

26. b. Correct the wrong statements.

a. Ionic compounds dissolve in non polar solvents.

- b. Covalent compounds conduct electricity in molten or solution state
27. a. What are the various uses of Aquaregia.  
b. What are the uses of Plaster of Paris?
28. Differentiate the following.  
a. Excretion and Secretion  
b. Incisors and Canines
29. Write any four uses of acids.
30. Differentiate  
a) Kwashiorkar from Marasmus  
b) Macronutrients from Micronutrients
31. A. Identify the following reactions as oxidation or reduction  
a.  $\text{Na} \rightarrow \text{Na}^+ + \text{e}^-$   
b.  $\text{Fe}^{3+} + 2 \text{e}^- \rightarrow \text{Fe}^+$   
b. Identify the compounds as Ionic/ Covalent/Coordinate based on the given characteristics.  
c. Soluble in non polar solvents  
d. Undergoes faster/instantaneous reactions  
e. Non conductors of electricity  
f. Solids at room temperature
32. List down the differences between Ionic and Covalent compounds.
33. Explain the structure of nephron.

## PART-D

## ANY 3

1. a. Explain the principle, construction and working of a dc motor.  
b. State Faraday's laws of electromagnetic induction.
2. a. Write any four uses of bases.  
b. Write any five uses of salts.
3. a. Explain the structure of kidney and the steps involved in the formation of urine  
b. Match the following.
- |           |                   |
|-----------|-------------------|
| Organ     | Elimination       |
| Skin      | a. Urine          |
| Lungs     | b. Sweat          |
| Intestine | c. Carbon dioxide |

Kidneys d. Undigested food

OR

- a. What are the effects of consuming adulterated food?
  - b. How are vitamins useful to us? Tabulate the sources, deficiency diseases and symptoms of fat soluble vitamins
4. a. Give the significance of pH of soil in agriculture.
- b. What is neutralization reaction? Give an example.
  - c. Give the tests to identify Acids and Bases.

OR

- a. Define electric field.
- b. Name any two appliances which work under the principle of heating effect of current.
- c. Draw the electron distribution diagram for the formation of Carbon di oxide (CO<sub>2</sub>) molecule.
- d. Match the following.

Magnetic material	(a) Oersted
Non-magnetic material	(b) Iron
Current and magnetism	(c) Induction
Electromagnetic	(d) Wood induction
Electric generator	(e) Faraday

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