

(Long Answer Type Questions)

1. Define Mirror formula and Magnification. Give the uses of a convex mirror.

Or

What is Refractive Index? Write an activity to find refractive index of glass. Draw necessary diagram.

(Short Answer Type Questions)

2. What is Hypermetropia and how is it corrected ?

Or

What is Dispersion of light ? What is the cause of dispersion ?

3. Explain the resistances in parallels.

Or

State Ohms Law. How is it verified ?

4. How does a solenoid behave like a magnet? Can you determine the North and South poles of a current carrying solenoid with the help of Bar magnet ? Explain.

Or

Explain principle and working of an Electric Motor Draw labelled diagram.

(Very Short Answer Type Questions)

5. (i) Define Power of a Lens

(ii) Can a concave mirror give a virtual image ?

(iii) What is Cracking ?

(Multiple Choice Questions)

6. (i) Which gas cannot be used as a fuel ?

(A) CNG

(B) L.P.G.

(C) Oxygen

(D) Hydrogen

(ii) If the power of a lens is 5D its focal length is :

(A) 20 m

(B) 2 cm

- (C) 0.2 cm
- (D) None of these

(iii) Unit of resistance is

- (A) Ampere
- (B) Volt
- (C) Watt
- (D) Ohm

(iv) Safety fuse wire is made of:

- (A) Copper
- (B) Silver
- (C) Alloy of tin and lead
- (D) Tungston

Section-B (CHEMISTRY)

(Long Answer Type Questions)

7. Draw the structure of the following compounds:

- (a) Bromopentane
- (b) Butanon
- (c) Ethanoic Acid

Or

How can Ethanol and Ethanoic acid be differentiated on the basis of their physical and chemical properties

(Short Answer Type Questions) <https://www.jkboseonline.com>

8. What happens when metals are burnt in air?

Or

What are the properties of Ionic Compounds?

9. What were the limitations of Newlands law of octaves ?

Or

Differentiate between Mendeleev's periodic table and modern periodic table

10. Balance the following reactions

- (a) $\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$
- (b) $\text{NaCl} + \text{AgNO}_3 \rightarrow \text{AgCl} + \text{NaNO}_3$
- (c) $\text{HNO}_3 + \text{Ca(OH)}_2 \rightarrow \text{Ca(NO}_3)_2 + \text{H}_2\text{O}$
- (d) $\text{BaCl}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + \text{HCl}$

Or

What is meant by Exothermic and Endothermic Reactions? Give examples

Very Short Answer Type Questions

11. (i) Give two uses of Baking Soda.
(ii) Write an equation to show the reaction between plaster of paris and water.
(iii) What are Saturated Hydrocarbons?

(Multiple Choice Questions)

- 12 (i) Which is the most active metal?
(A) Zinc
(B) Iron
(C) Gold
(D) Calcium
- (ii) Which non-metal is liquid at room temperature
(A) Carbon
(B) Sulphur
(C) Bromine
(D) Oxygen
- (iii) The bond present in calcium and oxygen in CaO is :
(A) Covalent
(B) Electrovalent
(C) Metallic
(D) None of these
- (iv) The formula of lime water is
(A) CaO
(B) Ca(OH)₂
(C) CaCO₃
(D) CaSO₄

Section-C

(LIFE SCIENCE)

(Long Answer Type Questions)

13. What is Nutrition Briefly explain the new major kinds of Nutrition.

Or

Describe the process of digestion of food in man

(Short Answer Type Questions)

14. How does Phototropism occur in plants?

Or

Draw the structure of Neuron and explain its functions.

15. What are the advantages of sexual reproduction over asexual reproduction?

Or

Describe the human male reproductive system.

16. Explain the terms Analogous and Homologous organs with examples

Or

How is the sex of the child determined in human beings?

(Very Short Answer Type Questions)

17. (i) What is the importance of forests ?

(ii) Define solid waste as per WHO.

(iii) What is a Flower ?

(Multiple Choice Questions)

18. (i) Ozone blanket is present in which of the following layers of atmosphere.

(A) Mesosphere

(B) Troposphere

(C) Stratosphere

(D) Thermosphere

(ii) Deforestation generally decreases :

(A) Rainfall

(B) Soil Erosion

(C) Drought

(D) Global Warming

(iii) An aquatic ecosystem consists of:

(A) Biotic factors

(B) Biotic and abiotic factors

(C) Consumers only

(D) Producers only

(iv) Forests provide which of the following to local people

(A) Fodder

(B) Herbs for medicine

(C) Fruits and Nuts for food

(D) All of these

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