



INDIAN SCHOOL AL WADI AL KABIR

POST MID TERM EXAMINATION 2022-23

DATE: 08/12/2022

SUB: SCIENCE

Time Allowed: 1 hour

CLASS: VIII

SET 1

Maximum Marks: 30

General Instructions:

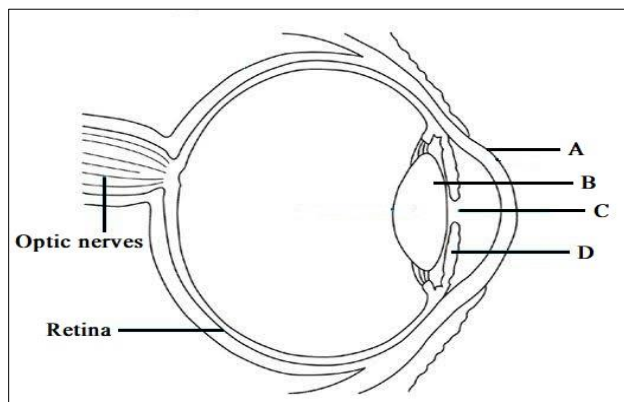
- i. All questions are compulsory. Marks are indicated against each Section.
- ii. The question paper comprises of 4 pages and 15 questions in 5 sections A, B, C, D & E.
- iii. Q.1 to Q.4 in **section A** MCQ carry ONE mark each. Write the correct answer along with the option only in the answer script.
- iv. Q.5 to Q.7 in **section A** ASSERTION AND REASON carry ONE mark each.
- v. Q.8 TO Q.10 in **section B** are Short Answer Type Questions and carry TWO marks each.
- vi. Q.11 to Q.13 in **section C** are Short Answer Type Questions and carry THREE marks each.
- vii. Q.14 in **section D** Long Answer Type Question and carries FIVE marks.
- viii. Q.15 in **section E** Case study/Paragraph Questions carry THREE marks.
- ix. Write the same question number as given in the question paper.
- x. Ink killer or whitener should not be used in the answer script.
- xi. Diagrams should be drawn using a pencil.

SECTION - A (7 X 1 = 7)

1. Two elements X and Y are reacted with oxygen to form their respective oxides. They are then dissolved in water. Element X forms a hydroxide which is basic in nature. Element Y forms an acid. What can elements X and Y be classified as?
 - a) X – metal; Y – non-metal
 - b) X – non-metal; Y – metal
 - c) X – metal; Y –metal
 - d) X – non-metal; Y – non-metal

2. What is observed when burning a magnesium ribbon in the air?
 - a) A greenish gas is obtained.
 - b) It burns brightly, giving out a golden colour.
 - c) It burns brightly, leaving blue ash.
 - d) It burns brightly, leaving behind a white powder.

3. What is true about the communicable disease ‘dengue’?
- It occurs due to female Aedes mosquitos that act as carrier of dengue virus.
 - It occurs due to male Aedes mosquitos that act as carrier of dengue virus.
 - It occurs due to male Anopheles mosquitos that act as carrier of dengue virus.
 - It occurs due to female Anopheles mosquitos that act as carrier of dengue virus.
4. Observe the given diagram of the human eye and identify the correct option.



- A- Iris, B- Cornea, C- Eye lens, D- Pupil
- A- Cornea, B- Iris, C- Pupil, D- Eye lens
- A- Cornea, B- Eye lens, C- Pupil, D- Iris
- A- Iris, B- Eye lens, C- Cornea, D- Pupil

For the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii), and (iv) as given below -

- Both A and R are true and R is the correct explanation of assertion.
- Both A and R are true but R is not the correct explanation of assertion.
- A is true but R is false.
- A is false but R is true.

5. **Assertion (A):** Non-metal chlorine is used in water purification process.

Reason (R): Chlorine has the power to kill germs.

6. **Assertion (A):** Bacteria and fungi are used to make medicines.

Reason (R): These medicines kill or stop the growth of disease-causing microorganisms.

7. **Assertion (A):** We can see non-luminous objects around us.

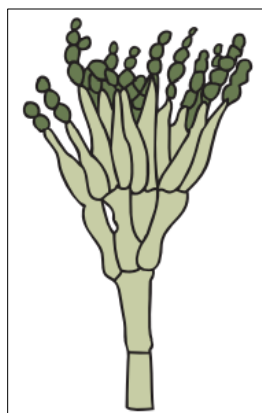
Reason (R): Light emitted by the non-luminous object falls on the eye.

SECTION - B (3 X 2 = 6)

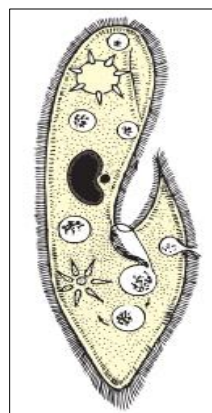
8. a) How will you detect the evolution of hydrogen gas in reaction between a metal and acid?
b) Give any **one point** of difference between the physical properties of metals and non-metals.
9. a) Immersion rods for heating liquids are made up of metallic substances.
b) Complete the following reactions –
i] Iron + Oxygen + Water → _____
ii] Sulphur + Oxygen → _____
10. Draw neat diagrams of **regular** and **diffused (irregular)** reflection.

SECTION - C (3 X 3 = 9)

11. a) Zinc metal when put into iron sulphate solution green colour of the solution turns to colourless.
Why does this change take place? Write the **word equation** for this reaction.
b) Some non-metals like phosphorus are stored in water.
12. a) Identify the given **organisms** and mention their **groups**:



A



B

- b) We should keep a handkerchief on the nose and mouth while sneezing. Give reason.
13. a) State the two laws of reflection.
b) Calculate the number of images formed by two plane mirrors kept at an angle of 90° .

SECTION - D (1 X 5 = 5)

14. a) How do vaccines protect the body from the attack of disease-causing germs?
b) What is fermentation? Which gas is released during the process of fermentation?

c) Complete the following table –

DISEASES	CAUSATIVE ORGANISMS	PREVENTIVE MEASURES
Cholera	<u>A</u>	<u>B</u>
Malaria	Protozoa	<u>C</u>
Chicken pox	<u>D</u>	Keep the patient isolated

SECTION - E (1 X 3 = 3)

Read the following passage /case study and answer the questions given below -

15. Retina of human eye contains several nerve cells. Sensations felt by the nerve cells are transmitted to the brain through the optic nerve. There are two kinds of cells - cones, which are sensitive to bright light and rods, which are sensitive to dim light. Cones sense colour. At the junction of the optic nerve and the retina, there are no sensory cells, so no vision is possible at that spot. This is called the blind spot. Some persons can see near objects clearly but cannot see distant objects so clearly. So, such persons are identified to have short-sightedness. On the other hand, some persons cannot see near objects clearly but they can see distant objects quite well such persons are identified to have long-sightedness. With suitable corrective lenses, these defects of the eye can be corrected.

- a) What is a blind spot?
- b) State the function of rods and cones in our eye.
- c) Name the defect of vision in which a person can see nearby objects clearly but he cannot see distant objects clearly.
