



INDIAN SCHOOL AL WADI AL KABIR

Post Mid Term Examination 2022-23

SUB: Science

Date: 04 /12/2022

Time Allowed :1 hour

Class: VII

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 option only in the answer script .
- iv. Q.5 to Q.7 in **section A** are 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** is Long Answer Type Question carries five marks.
- viii. Q.15 in **section E** Case study/Paragraph Questions carry 3 marks each.
- 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 pencil.

SECTION - A (7 X 1 = 7)

1. The phenomenon that leads to the formation of a band of seven colours is called
 - (a) Deviation
 - (b) Dispersion
 - (c) Discoloration
 - (d) Distribution
2. _____ is made by mixing iron with carbon, chromium, nickel, and manganese.
 - (a) Stainless steel
 - (b) Bronze
 - (c) Aluminium
 - (d) Brass
3. Organic matter is used by the farmers to neutralise the soil. What sort of substance is organic matter?
 - (a) Neutral
 - (b) Basic
 - (c) Acidic
 - (d) Metallic

4. The chemical name of Vitamin C is
- | | |
|-------------------|-------------------|
| (a) Citric acid | (b) Abscisic acid |
| (c) Ascorbic acid | (d) Acetic acid |

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

- (i) **Both A and R are true and R is the correct explanation of assertion.**
(ii) **Both A and R are true but R is not the correct explanation of assertion.**
(iii) **A is true but R is false.**
(iv) **A is false but R is true**

5. **Assertion (A):** Taps and bicycle handles are usually chromium-plated.

Reason (R): Coating a layer of chromium prevents rusting of iron articles.

6. **Assertion (A):** The outer surface of spoon acts like a concave mirror.

Reason (R): A concave mirror has reflecting surface curved inwards.

7. **Assertion (A):** Acids turns blue litmus paper red and bases turns red litmus paper blue.

Reason (R): Substances which are neither acidic nor basic are called neutral.

SECTION - B (3 X 2 = 6)

8. a) In a shaving mirror, concave mirrors are used. Give reason.
b) How is a convex mirror similar to a plane mirror?
9. a) Soha is suffering from acidity due to indigestion. What would you advise her in such a situation?
b) Name the gases that cause acid rain.

10. a) Give an example of a neutralisation reaction.

b) While working in the laboratory, the teacher mostly uses diluted solutions of acids and bases to explain the concepts and handles them with the utmost care. Why does the teacher handle laboratory acids and bases with great care?

SECTION - C (3 X 3 = 9)

11. a) Explain the formation of a rainbow.

b) Draw diagrams to differentiate between a Concave and convex mirror.

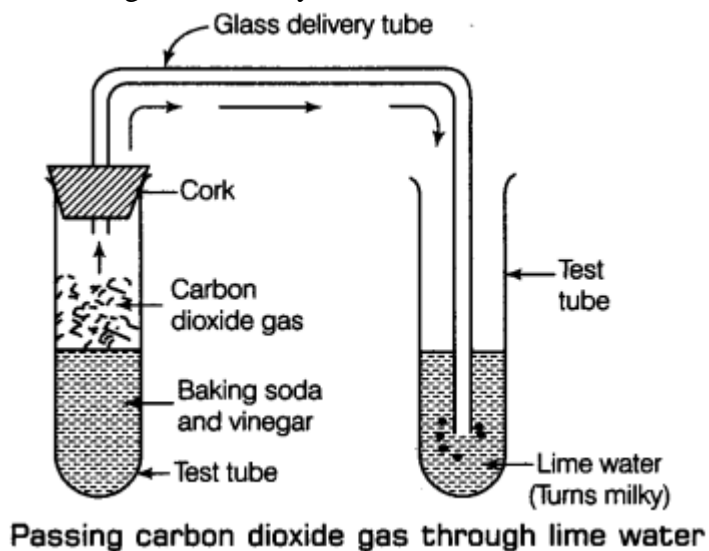
12. a) Class VII students went on an educational trip to see how various industries and human settlements around the river Yamuna in Delhi are polluting it deliberately. They saw that factory wastes and municipal wastes were dumped into it untreated.

(i) How do factory or domestic wastes affect the quality of the river?

(ii) How is the process of neutralisation effective in changing some of the quality of water?

b) Explain how lime water is prepared in the laboratory.

13. a) Refer to the diagram carefully:



In the above experiment, why does lime water turn milky after passing carbon dioxide gas through it? Write the word equation for it.

b) Ram saw his father painting the Iron Gate. Can you explain why his father is painting the gate?

SECTION – D (1 X 5 = 5)

14. a) What chemical changes occur during photosynthesis and food digestion?

Justify your answer.

b) Is cloud formation a physical or chemical change? Explain.

c) What do you observe when magnesium ribbon is burned in the air?

SECTION - E (1 X 3 = 3)

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

15. Namit was driving his car when he suddenly became aware of a loud sound coming from behind his car. He checked his rearview mirror and saw the word ambulance written on the back of the vehicle. He quickly recalled that it is the duty of every one of us to allow an ambulance to pass without blocking its way. He also made another observation while looking through the rearview mirror: the objects behind his car appeared to be smaller in size.

a) Name the type of mirror that is used as a rearview mirror?

b) What phenomenon is observed when you view the word **AMBULANCE** through a mirror?

c) How is the reflecting surface of the mirrors that are used as rearview mirrors?
