

**SINDHI HIGH SCHOOL, HEBBAL**

**I Periodic Test [2022-23]**

**Subject: Science**

**Class: VII Max. Marks: 30**

**Date: 04.08.2022 Reading Time: 8:00 am to 8:10 am**

**No. of sides: 3 Writing Time: 8:10 am to 9:10 am**

**General Instructions:**

* (i) The question paper comprises four sections A, B, C and D. There are 15 questions in the

question paper. **All questions are compulsory.**

* (ii) Section–A - question no. 1 to 8 - all questions and parts thereof are of one mark each.

These questions contain multiple choice questions (MCQs), very short answer questions,

assertion - reason type questions and Case study.

* (iii) Section–B - question no. 9 to 11 are short answer type questions, carrying 2 marks each.
* (iv) Section–C - question no. 12 to 14 are short answer type questions, carrying 3 marks each.
* (v) Section–D – question no.15 is long answer type question carrying 4 marks.
* (vi) Wherever necessary, neat and properly labeled diagrams should be drawn.

**SECTION-A**

1. The object in which seven colours spread over, it appears to be white in

colour when rotated is called-

(a) prism (b) Newton’s disc

(c) Glass slab (d) Lens

2. Which of the following is the physical change?

(a) Rusting of iron (b) Combustion of magnesium ribbon

(c) Burning of candle (d) Melting of wax

3. The absorption of nutrients and exchange of respiratory gases between blood

and tissues takes place in-

(a) veins (b) arteries

(c) heart (d) Capillaries

4. In the formation of rainbow, what acts as tiny prisms?

5. Mention any two letters of English alphabet which exhibits lateral symmetry

when looked in the mirror.

**For question numbers 6 and 7, two statements are given- one labelled**

**Assertion (A) and the other labelled Reason (R).**

**Select the correct answer to these questions from the codes (a), (b), (c)**

**and (d) as given below:**

1. **Both A and R are true, and R is correct explanation of the assertion.**
2. **Both A and R are true, but R is not the correct explanation of the assertion.**
3. **A is true, but R is false.**
4. **A is false, but R is true.**

**6. Assertion:** Light travels in a straight line.

**Reason:** Transparent objects allow all the light to pass through them.

7. **Assertion:** Explosion of fire cracker is a physical change.

**Reason:** All Physical changes are not reversible changes.

**Read the passage and answer the following questions from 8(i) to 8(iv)**

8. All organisms need food, water and oxygen for survival. They need to

transport all these to various parts of their body. Further, animals need to

transport waste to parts from where they can be removed. Many organs come

together and function to transport substances and together form the

circulatory system.

(i) Read the following sentences carefully, and choose the correct one:

(a) Blood vessels are a kind of tube or pipes which carry blood throughout   
 the body.

(b) The left side of heart has oxygen rich blood or oxygenated blood,

whereas the right side of heart has carbon dioxide rich blood or

deoxygenated blood.

(c) It is necessary to keep the oxygen rich blood separate so that it may

supply good amount of oxygen to the body cells for respiration and

release of energy.

(d) All the above.

(ii) Which blood vessel does not carry any carbon dioxide?

(a) pulmonary artery (b) Vena cava

(c) pulmonary vein (d) capillaries

(iii) The formation of clot when bleeding is stopped from a wound in a human

body is due to-

(a) RBC (b) WBC

(c) Haemoglobin (d) platelets

(iv) White patches formed in areas like underarms are due to-

(a) Salt present in the sweat

(b) Sugar present in the sweat

(c) Acids present in the sweat

(d) Bases present in the sweat

**SECTION-B**

9. Two different types of lenses are placed on a sheet of newspaper. How will

you identify them without touching?

10. (a) Sponges and hydra do not possess any circulatory system, then how do

they carry out distribution of food and other substances?

(b) Arteries have thick and elastic wall compared to veins. Why?

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11. Draw the atomic structure of Sodium and write its atomic number and

electronic configuration.

**SECTION-C**

12. Differentiate between molecule of an element and molecule of a compound

by giving one example for each.

13. Draw the structure of human excretory system and label the parts.

14. (i) Write word equations for two chemical reactions with the help of

materials given in the box.

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| --- |
| Air, Water. Copper sulphate, Iron, Iron oxide, Iron sulphate, Copper |

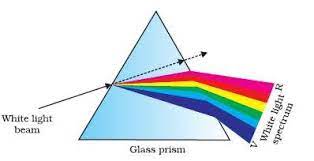
(ii) What is the nature of the Magnesium Hydroxide solution?

**SECTION-D**

15. (a) Identify the phenomenon shown in the picture and define the same.

(b) What is spectrum? Write the names of the colour that are missing in

the picture.



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