** SINDHI HIGH SCHOOL, HEBBAL**

**PERIODIC TEST - II (2023-24)**

**SUBJECT – Science**

**Class: 8 Marks: 50**

**Date: 21/12/2023 Reading Time: 8:30 to 8:45 am Number of printed sides: 4 Writing Time: 8:45 to 10:45 am**

**General Instructions:**

* This Question paper has 5 sections A-E
* Section A has 12 questions carrying one mark each consisting of MCAs and assertion and reason type questions.
* Section B has 4 questions carrying 2 marks each.
* Section C has 4 questions carrying 3 marks each.
* Section D has 2 questions carrying 5 marks each.
* Section E has 2 case study carrying 4marks each consisting of 3 questions.

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|  | **SECTION A** |  |
| 1. | Which of the following change appreciably when a batsman hits a  moving cricket ball -  A. Shape B. Direction C. Size D. Speed  (a) A and B (b) B and C (c) A and C (d) B and D | 1 |
| 2. | If in a tug of war, when two teams are pulling a rope, and the rope does  not move towards any team, it implies that-  (a) equal force is being applied in the same direction.  (b) equal force is being applied in the opposite direction.  (c) no force is applied in any direction.  (d) cannot be explained. | 1 |
| 3. | Which among the following will exert maximum pressure when  pushed with the same amount of force?  (a) An eraser of area 2 cm2 (b) A sharp pencil tip (c) The blunt end of a pencil (d) The rear portion of a closed safety pin | 1 |
| 4. | A matchstick does not catch fire on its own at room temperature  because its:  (a) ignition temperature is more than room temperature.  (b) ignition temperature is less than room temperature.  (c) ignition temperature is same as room temperature.  (d) ignition temperature vary in the matchstick. | 1 |
| 5. | Which of the following does not produce flame on burning?  (a) LPG (b) charcoal (c) paper (d) kerosene | 1 |
| 6. | When oil or petrol catches fire, water is not used to extinguish it because-  (a) water covers oil and oil burns under water layer which may not be noticeable.  (b) Water is heavier than oil or petrol and so remains below the oil  layer which continues to burn.  (c) water get mixed with oil and increases fire.  (d) water gets evaporated. | 1 |
| 7. | A common preservative used in jam and pickles is (a) Sodium benzoate (b) Nitric acid (c) Sodium Chloride (d) Copper Sulphate | 1 |
| 8. | Preventive measures which should not be listed is –  (a) we should avoid to take things used by infected person.  (b) not necessary to follow good sanitary habits.  (c) we should make sure that only disposable syringes and needles are  used for giving injections.  (d) keep safe distance from a person suffering from cold and cough. | 1 |
| 9. | **For question numbers 9, 10, 11 and 12 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:**   * **Both A and R are true, and R is correct explanation of**   **the assertion.**   * **Both A and R are true, but R is not the correct**   **explanation of the assertion.**   * **A is true, but R is false.** * **A is false, but R is true.**   **Assertion:** We can drink cold drink from a bottle with the help of a  straw.  **Reason:** The pressure inside the straw is more than outside. | 1 |
| 10. | **Assertion:** No one should be allowed to take any burning objects within  the premises of petrol pump .  **Reason:** petrol is highly inflammable substance. | 1 |
| 11. | **Assertion:** The fungi can live on or inside other plant.  **Reason:** They are able to grow anywhere on land or water. | 1 |
| 12. | **Assertion:** Disease causing microbes are called pathogens.  **Reason:** Microbes produce antibodies in our body. | 1 |
|  | **SECTION B** |  |
| 13. | Explain with an example that force can act without an interaction between two objects. | 2 |
| 14. | Coin one word for these statements:  (a) The force that opposes motion of an object.  (b) The pressure exerted by the weight of the air on an object.  (c) Type of force used when we chew food.  (d) SI Unit of force. | 2 |
| 15. | Define communicable diseases. Give two examples of bacterial diseases. | 2 |
| 16. | What is the role of sugar and salt in the preservation of food? | 2 |
|  | **SECTION C** |  |
| 17. | Give reasons for the following:  (a) Water comes out slowly from a tap in the top floor when compare to  a similar tap in the down floor.  (b) Fountain pen leaks at higher altitude.  (c) Astronauts wear special suits. | 3 |
| 18. | Write the difference between rapid combustion and spontaneous  combustion reactions by giving one example for each. | 3 |
| 19. | On Mohan’s birthday, his mother prepared many dishes for him. After having their meal, they found out that many food items were left over. Mohan's mother kept these left overs in a air tight container and refrigerate them.  (a) What is food preservation? What will happen to the food if it is not  preserved?  (b) What is the role of refrigeration in food preservation? | 3 |
| 20. | (a) Following is the schematic representation of the nitrogen cycle.  Identify the steps ABC and D.  (b) What would be the consequence if step D is missing in the nitrogen cycle. | 3 |
|  | **SECTION D** |  |
| 21. | (a) With the help of a diagram explain how liquids exert equal pressure  at equal deapth.  (b) Calculate the force applied on an area of 140 cm2 to exert a  pressure 15 Pa. | 5 |
| 22. | (a)An electrical fire broke out in a warehouse. A fire engine rushed to  the spot. A junior fireman rushed to the spot with a water hose to  extinguish the fire. His senior stopped him and asked him not to use  this method. Why do you think the senior stopped the junior from  using a water hose? Which type of fire extinguisher do you think the  senior would have used to put off the electrical fire?  (b) While lighting the candles on her birthday cake, Pooja's cloth caught  fire. What she should do to extinguish the fire immediately and she  should not do at that moment?  (c) Although wood has a very high calorific value, we still discourage its  use as a ideal fuel. Why? | 5 |
|  | **SECTION E** |  |
| 23. | **Read the passage and answer the following questions:**  The title of the series of lectures given by Michael Faraday in 1860 was the chemical history of a candle wick, Six lectures were printed as a book in 1861 which included the components, function of the candle  wick, and weight of the atmosphere, capillary attraction, the carbon content in oxygen and living bodies, the production of gas  from coal gas and sugar, the properties of carbonic acid, respiration  and its analogy to the burning candle and much more.  (i) Draw a diagram showing different zones of candle flame.  (ii) Which zone of the flame does a goldsmith use for melting gold and  why?  (iii) Why petrol is considered as better fuel compared to candle wax? | 2  1  1 |
| 24. | Mohan lived in Delhi and he loves to play football. But as of now his half yearly exams were going on so his mother did not allow him to go out and play. She promised Mohan that as soon as his exams are over he can go and play. Post exams he went out to play football with his friends in the park. Suddenly a mosquito bit him under his left knee. He came home and everything was normal that time. The next day his health started getting affected. His Parents rushed him to the doctor. The doctor prescribed some medicines and some medical tests. The next day  parents went to the doctor with Mohans’s medical report. In that report  the platelet counts were very low. The doctor diagnosed him with  Dengue fever. Mohan was hospitalized for some time and followed a  strict diet to recover as early as possible. And eventually some days  passed and he recovered.  (i) Name the causative organism and vector of dengue fever.  (ii) Explain the mode of spread of disease and its preventive  measures.  (iii) Name any one disease which has same mode of transmission of  disease and its causative organism | 1  2  1 |

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