 **SINDHI HIGH SCHOOL, HEBBAL**

**PERIODIC TEST III [2023-24]**

**Subject: SCIENCE**

**Class: VIII Max. Marks: 30**

**Date: 05.02.2024 Reading time: 8:20 – 8:30a.m**

**No. of sides: 3 Writing time: 8:30 – 09.30 am**

**GENERAL INSTRUCTIONS:**

**This Question Paper has 5 Sections A-E.**

1. This question paper consists of 14 questions in 5 sections.

2. All questions are compulsory.

3. **Section A** consists of 6 objective type questions carrying 1 mark each consisting

multiple choice and assertion and reasoning type questions.

4. **Section B** consists of 3 Very Short questions carrying 02 marks each.

5. **Section C** consists of 3 Short Answer type questions carrying 03 marks each.

6. **Section D** consists of 1 Long Answer type questions carrying 05 marks.

7. **Section E** consists of a case-based question with sub- parts which carries 04 marks.

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|  | **SECTION A** |  |
| **1)** | Lightning occurred when two charges meet, they are  a) Both positive b) Both negative c) One positive and other negative d) None | **1** |
| **2)** | In human males, the testes lie in the scrotal sac outside the body because it helps in the:  a) process of mating  b) formation of sperms  c) easy transfer of sperms  d) production of semen | **1** |
| **3)** | Which of the following is not used for electroplating metal articles?  (a) Nickel (b) Silver (c) Sodium (d) Chromium | **1** |
|  | **Assertion Reason based question:**  **In the following questions a statement of assertion (A) is followed by a statement of Reason(R). Choose the correct option.**  **(a) Both A and R are true, and R is the correct explanation of A.**  **(b) Both A and R are true, and R is not the correct explanation of A.**  **(c) A is true but R is false.**  **(d) A is false but R is true**. |  |
| **4)** | **Assertion (A):** Electric current does not flow through glucose solution.  **Reason (R):** Salt solution is an electrolyte. | **1** |
| **5)** | **Assertion (A):** Female in human produces an egg in every 28 days.  **Reason (R):** Assertion: Human being is an oviparous animal. | **1** |
| **6)** | **Assertion (A):** **Electrical charges can be transferred from a charged object to another through a metal conductor**  **Reason (R): Metals are good conductors of electricity.** | **1** |
|  | **SECTION B** |  |
| **7)** | What is a lightning rod? How does it work? | **2** |
| **8)** | Differentiate between oviparous and viviparous animals with one example of each. | **2** |
| **9)** | Anu had heard that rainwater is as good as distilled water. So she collected some rainwater in a clean glass tumbler and tested it using a tester. To her surprise she found that the compass needle showed deflection. What could be the reasons? | **2** |
|  | **SECTION C** |  |
| **10)** | Complete and label the steps of asexual reproduction in amoeba by drawing the figure.  **D**  **B** | **3** |
| **11)** | In the given picture identify the cathode and electrolyte and write the cell reaction for the above process. | **3** |
| **12)** | a) How is Galvanization different from chrome plating?  b) Mention any four applications of chemical effect of electric current. | **3** |
|  | **SECTION D** | **3** |
| **13)** | a) Explain the stepwise process of formation of a zygote and its development into a baby in human beings.  b) Write a short note on menstruation in females. | **3+2** |
|  | **SECTION E** |  |
| **14)** | The story of Lightning:  During a thunderstorm, the air currents move upwards while the water droplets move downward.  This vigorous movements cause separation of charges. This leads to the positive charges collect near the upper edges of the clouds and the negative charge to accumulate near lower edges of the clouds.  There is an accumulation of positive charges near the ground also.  Negative and positive charges meet, producing streaks of bright light and sound. We see streaks as lightning. The process is known as electric discharge. The process of electric discharge between different clouds or between clouds and the earth causes lightning.  a) What is lightning?  b) The weather department has predicted that a thunderstorm is likely to occur on a certain day. Suppose you have to go out on that day. Would you carry an umbrella? Justify your answer.  c) Explain why it is safer to use a wireless telephone instead of a landline telephone during lightening? | **1**  **2**  **1** |

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