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**SINDHI HIGH SCHOOL, HEBBAL**

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

**SUBJECT – Science**

**Marks: 30**

**Class: VII Timings: 1 Hours 10 mins**

**Date: 06/7/2023 Reading Time: 8:05 to 8:15 am Number of printed sides: 2 Writing Time: 8:15 to 9:15 am**

**GENERAL INSTRUCTIONS**

\* The question paper consists of 5 sections with 14 questions. All questions are compulsory. There is no

choice in the question paper.

**\* Section A** carries one mark, comprises of MCQ’s and Assertion Reason type questions.

\* **Section B** are short answer type questions and carry 2 marks each.

\* **Section C** are long answer type questions and carry 3 marks each.

\* **Section D** is long answer type question and carries 5 marks.

\* **Section E** is case study type question and carries 4 marks.

**SECTION A**

1. Nichrome is an alloy of

a) Nitrogen and Potassium b) Nickel and Chromium

c) Nickel and Potassium d) Nitrogen and Chromium **(1)**

2. Which of the following options have the correct pair of molecules

a) O8 and H2O b) O3 and C2O c) Cl2 and CO2 d) Cl2 and HO2 **(1)**

3. Which of the following is not a heterotroph?

a) Cuscuta b) Banyan c) Rhizobium d) Drosera **(1)**

**The following questions consist of two statements - Assertion (A) and Reason (R).**

**Answer these questions selecting the appropriate option given below:**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but 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:** Wires of different materials, different lengths and thickness are used in electrical

appliances.

**Reason:** Small amount of current passes through the electrical appliances **(1)**

5. **Assertion:** Matter is made up of tiny particles called atoms.

**Reason:** Arrangement of these atoms determines all the physical properties associated

with it. **(1)**

6. **Assertion:** Slender yellow climbers entwine themselves around the stem and branches of the host tree.

**Reason:** It lacks chlorophyll and depends on the host for its nutrition. **(1)**

**SECTION B**

7. Draw a neat labelled diagram showing the leaf where exchange of gases takes place. **(2)**

8. Draw a circuit diagram showing closed circuit. **(2)**

9. Symbols of elements are used to represent an element. Write symbols of any four

elements derived from their Latin or Greek names. **(2)**

**SECTION C**

10. a) Differentiate between nitrogen and water based on its composition. **(1)**

b) Classify the following into pure substances and impure substances air; sugar; sand and water; helium **(2)**

11. a) Draw a neat labelled diagram showing the structure of an atom. **(2)**

b) Write about any two subatomic particles. **(1)**

**12. Give suitable reasons for the following: (3)**

a) Algae and fungi live together in lichens.

b) Farmers do not add fertilizers to the soil when they grow crops like peas, green gram

and bengal gram.

c) Some plants depend on insects.

**SECTION D**

13. a) Define electric circuit. **(1)**

b) Name any two effects of electric current. **(1)**

c) Which material is used to make electrical heaters? Justify. **(1)**

d) Electric fuse is made of low melting material. Give reason and write the importance of

using fuse in an electric circuit. **(2)**

**SECTION E**

**14. Read the passage and answer the questions that follow:**

All living organisms need energy to perform various life activities. They obtain this

energy from the food they eat from different sources. The process of taking food and its

utilization by the body is known as Nutrition.

a) Name the two modes of nutrition. **(1)**

b) Name the ultimate source of energy and the form of energy it is stored in the plant. (**1)**

c) Write the equation showing photosynthesis. **(1)**

d) What would happen in the absence of photosynthesis? **(1)**

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