**SET - 1**

**INDIAN SCHOOL SOHAR**
**PERIODIC ASSESSMENT – 1 (2019-20)**
**SCIENCE**

**CLASS: X** **MAX. MARKS: 15**
**DATE: 12/05/2019** **DURATION: 45 MINS**

**General Instructions:**

*(i) This question paper consists of seven questions. All questions are compulsory.*
*(ii) Question numbers 1 to 4 are one-mark questions. These are to be answered in one word or one sentence.*
*(iii) Question numbers 5 and 6 are three-mark questions. These are to be answered in about 30 words each.*
*(iv) Question number 7 is a five-mark question. This is to be answered in about 50 words each.*
*(v) There is no overall choice. However, an internal choice is provided in one question of 5 marks.*
*(vi) Wherever necessary, the diagrams drawn should be neat and properly labelled.*

1. Write any two observations when you add water to quick lime. 1
2. Why do herbivores have longer small intestine as compared to carnivores? 1
3. "Lead nitrate reacts with potassium iodide to give potassium nitrate and a precipitate of lead iodide". Translate the above statement into a balanced chemical equation. 1
4. Write a balanced chemical equation for the process of photosynthesis. 1
5. a) Why do we store halides (chloride , bromide and iodide) of silver in dark coloured bottle?
   b) What is the colour change observed when ferrous sulphate crystals are heated? Write a balanced chemical equation for the above reaction. 3

**P.T.O**

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**P.T.O**

6. Draw a flowchart to show the breakdown of glucose by various pathways. 3

7. a) Why are copper and aluminium wires usually employed for electricity transmission?

b) Mention any two factors on which the resistance of a conductor depend.

c) A wire of given material having length L and area of cross-section A has a resistance of 4Ω. What would be the resistance of another wire of same material having length 2L and area of cross-section A/2 ?

**OR**

a) Name the instrument used for measuring electric current. How is this instrument connected in an electrical circuit?

b) Define potential difference between two points. Hence define its unit.

c) An electric iron draws a current of 0.5 A. Calculate the amount of electric charge flowing through it, in one hour. 5

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**SET -2**

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*(vi) Wherever necessary, the diagrams drawn should be neat and properly labelled.*

1. "Barium chloride reacts with aluminium sulphate to give aluminium chloride and a precipitate of barium sulphate". Translate the above statement into a chemical equation. 1
2. Write any two observations when you add water to quick lime. 1
3. Mention two functions of Hydrochloric acid in the stomach. 1
4. Write a balanced chemical equation for the process of photosynthesis. 1
5. Draw a flowchart to show the breakdown of glucose by various pathways. 3

**P.T.O**

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   b) What is the colour change observed when lead nitrate crystals are heated? Write a balanced chemical equation for the above reaction. 3

7. a) Why are copper and aluminium wires usually employed for electricity transmission?
   b) Mention any two factors with the mathematical expressions on which the resistance of a conductor depend.
   c) A wire of given material having length L and area of cross-section A has a resistance of 4Ω. What would be the resistance of another wire of same material having length 3L and area of cross-section A/3?

**OR**

   a) Name the instrument used for measuring potential difference. How is this instrument connected in an electrical circuit?
   b) Why are conductors of electric heating devices, such as toasters and electric iron made of an alloy rather than pure metals?
   c) A charge of 50 C is moved from infinity to the point A in an electric field. The work done to do so, is 20J. Calculate the potential at the point A. 5

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