



INDIAN SCHOOL SOHAR
PERIODIC TEST- 1 (2017-18)
SCIENCE

STD X
22-5-17

SET I
Time: 40 minutes
Marks: 20

1. How are the two resistors with resistances $R_1\Omega$ and $R_2\Omega$ respectively connected to a battery of emf 'V' volts to obtain maximum current flowing through it? (1)
2. Draw symbols of the following circuit elements. (i) Battery (ii) Rheostat. (1)
3. Identify the oxidising agent and the reducing agent in the given reaction. (1)
$$\text{H}_2\text{S} + \text{Cl}_2 \longrightarrow 2\text{HCl} + \text{S}$$
4. Why do we apply paint on iron articles? (1)
5. Name the following :- (1)
 - (a) The internal energy reserve in animals.
 - (b) A plant parasite.
6. Balance the given chemical equations: (2)
$$\text{KClO}_3 \longrightarrow \text{KCl} + \text{O}_2$$
$$\text{Al}(\text{OH})_3 \longrightarrow \text{Al}_2\text{O}_3 + \text{H}_2\text{O}$$
7. (a) Why a Buffalo has longer small intestine than a Lion? (2)
(b) What happens, if hydrochloric acid is not released in the stomach?

PTO

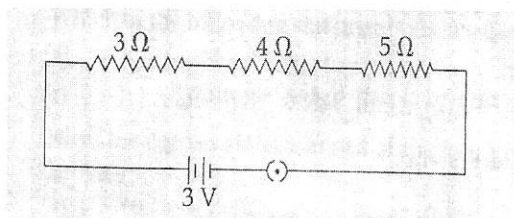


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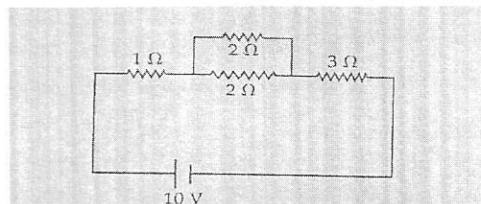
1. How are the two resistors with resistances $R_1\Omega$ and $R_2\Omega$ respectively connected to a battery of emf 'V' volts to obtain minimum current flowing through it. (1)
2. Draw symbols of the following circuit elements. (i) Cell (ii) Voltmeter. (1)
3. Identify the oxidising agent and the reducing agent in the given reaction. (1)
$$2\text{Al} + \text{Fe}_2\text{O}_3 \longrightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$$
4. Why are bags of chips flushed with nitrogen gas? (1)
5. Name the following- (1)
 - (a) The internal energy reserve in plants.
 - (b) An example of organism which can break down the food outside the body and then absorb it.
6. (a) Find the amount of work done in moving a charge of 5C across two points having a potential difference of 20V. (2)
(b) Study the following circuit and calculate the potential difference across 5Ω resistor.



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SET I

8. (a) How much work is done in moving a charge of 2C across two points having a potential difference of 12V? (2)
 (b) Find the current flowing through the following circuit.



9. (a) What is meant by resistance of a conductor? List the factors on which the resistance of a conductor depends. (3)
 (b) How is the resistance of a wire affected if (i) its length is doubled (ii) its area is doubled?
10. A green colour substance 'A' on heating decomposes to give a reddish brown substance 'B' and 2 gases 'C' and 'D' which are oxides of a nonmetal. Identify A,B,C, D and write the balanced equation for the reaction. (3)
11. (a) State the function of the following enzymes- (3)
 (i) Salivary Amylase (ii) Pepsin (iii) Lipase.
 (b) Mention three main events that occur during photosynthesis.

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SET II

7. (a) Why a Buffalo has longer small intestine than a Lion? (2)
 (b) What happens, if mucus is not released in the stomach?
8. Balance the given chemical equations: (2)

$$\text{KNO}_3 \longrightarrow \text{KNO}_2 + \text{O}_2$$

$$\text{Fe} + \text{O}_2 \longrightarrow \text{Fe}_2\text{O}_3$$
9. (a) State the function of the following enzymes: (3)
 (i) Pancreatic Amylase (ii) Trypsin (iii) Lipase.
 (b) Mention three main events that occur during photosynthesis.
10. State Ohms law. Write the necessary conditions for its validity. How is this law verified mathematically? What will be the nature of graph between potential difference and current for a conductor? Name the physical quantity that can be determined from this graph. (3)
11. A white colour substance 'A' on heating decomposes to give a yellow substance 'B' and 2 gases 'C' and 'D'. The gas 'C' is reddish brown in colour and the gas 'D' helps in combustion. Identify A, B, C, D and write the balanced equation for the reaction. (3)

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