

National Public School, Hazaribagh, 825301

Science 2014 Term I

Time allowed : 3 hours

Maximum marks : 90

SECTION—A

1. Name the two components of peripheral nervous system. [1]

Answer : Two components of peripheral nervous system are :

1. Autonomic nervous system.
 2. Voluntary nervous system.
2. A charge of 150 coulomb flows through a wire in one minute. Find the electric current flowing through it. [1]

Answer : Charge, $Q = 150 \text{ C}$

Time, $t = 1 \text{ min} = 60 \text{ s}$

$$\text{Current, } I = \frac{Q}{t} = \frac{150}{60} = 2.5 \text{ A}$$

3. What are hot spots inside earth's crust ? [1]

Answer : Due to geological changes, molten rocks formed in the deeper hot regions of earth's crust are pushed upward and trapped in certain regions. These are called 'hot spots'.

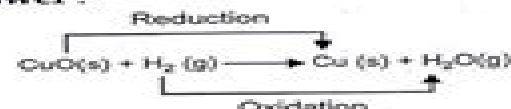
4. Explain why, an aqueous solution of sodium sulphate is neutral while an aqueous solution of sodium carbonate is basic in nature. [2]

Answer : Aqueous solution of sodium sulphate gets hydrolysed to form sodium hydroxide and sulphuric acid which are strong base and strong acid respectively. So, its aqueous solution is neutral. When sodium carbonate is dissolved in water, it gets hydrolysed to some extent and forms sodium hydroxide and carbonic acid. Now sodium hydroxide is a strong base which is fully ionised and gives a large amount of hydroxide ions $[\text{OH}^-(\text{aq})]$. On the other hand, carbonic acid is a weak acid which is only slightly ionised and hence gives a small amount of hydrogen ions $[\text{H}^+(\text{aq})]$. The mixture contains more of hydroxide ions than hydrogen ions, so it is basic in nature.

5. When hydrogen gas is passed over heated copper (II) oxide, copper and steam are formed. Write the balanced chemical

equation for this reaction and state (i) the substance oxidized and (ii) the substance reduced in the reaction. [2]

Answer :



(i) Substance oxidized = H_2 (Hydrogen gas)

(ii) Substance reduced = CuO (Copper oxide)

6. Why do herbivores have longer, small intestine than carnivores ? [2]

Answer : The length of the small intestine differs in various animals depending on the type of food they eat. Cellulose is a carbohydrate food which is digested with difficulty. So the herbivorous animals like cows which eat grass need a longer small intestine to allow the cellulose present in grass to be digested completely.

7. State reason for the following : [3]

- (i) Lemon is used for restoring the shine of tarnished copper vessels.
- (ii) A metal sulphide is converted into its oxide to extract the metal from the sulphide ore.
- (iii) Copper wires are used in electrical connections.

Answer : (i) When a copper object remains in damp air for a considerable time, then copper reacts slowly with carbon dioxide and water in air to form a green coating of basic copper carbonate on its surface. If corroded copper vessels are treated with lemon which is acidic in nature, the acid solution dissolves green coloured basic copper carbonate and makes them look shiny.

- (ii) It is easier to obtain metals from their oxides (by reduction) than from sulphides. So before reduction, the metal sulphide ore is converted into metal oxide.
- (iii) Copper metal is the next best conductor of electricity after silver metal. So electric

Final Physics Paper 2014 Grade 10

Yijin Wang



Final Physics Paper 2014 Grade 10:

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