SET-1

INDIAN SCHOOL SOHAR

STD X **FORMATIVE ASSESSMENT II-2014** **Marks: 20**

3.6.14 **SCIENCE** **Time : 40 mins**

ANSWER THE FOLLOWING:-

1. A wire of length 'l' and resistance 'R' is stretched so that its length is doubled and area of cross section is halved. How will its resistivity change? Justify your answer.(1)

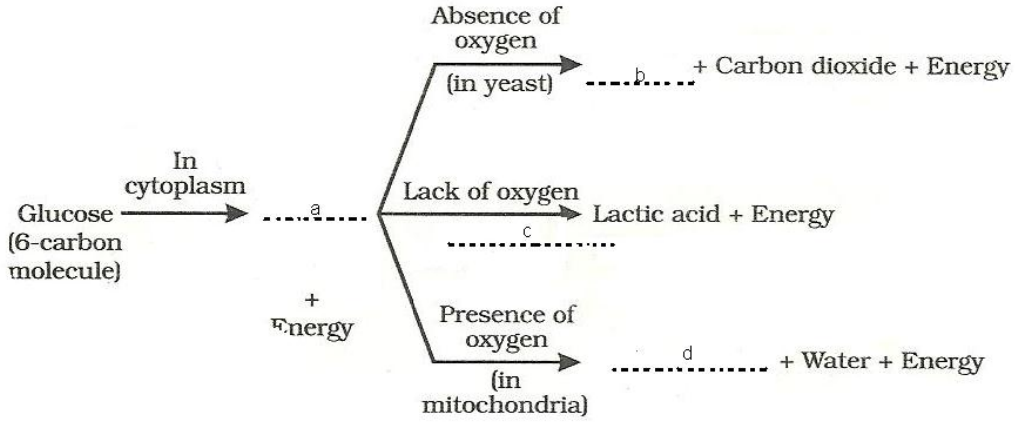
2. Why is Tungsten used for making filament of an electric bulb? (1)

3. Lungs always contain a residual volume of air. Justify. (1)

4. A yellow stain of turmeric is cleared with soap. What will you observe? What is the nature of soap?(1)

5. Equal lengths of magnesium ribbons are taken in test tubes A and B. Hydrochloric acid (HCl)is added to test tube A, while acetic acid (CH_3COOH) is added to test tube B. In which test tubewill the fizzing occur more vigorously and why?(1)

6.(i) Complete the glucose breakdown pathways in respiration by filling the blanks. (2)



7. In the given reaction name the substance which is (i)oxidized, (ii)reduced, (iii) the oxidising agent and (iv) the reducing agent. (2)

$3MnO_2+4Al \text{ -----}\rightarrow 3Mn+2Al_2O_3$

8. Resistance of three resistors are given as $R_1 = 10\Omega$, $R_2= 20\Omega$ and $R_3= 30\Omega$. Calculate(2) the equivalent resistance when they are connected in series. Also calculate the current flowing whenthe combination is connected to a 6 V battery.

9. Derive the relation for effective equivalent resistance, when resistances are connected in parallel?(3)

10. Dry hydrogen chloride gas does not turn blue litmus red whereas hydrochloric acid does. Describe an activity to prove this.(3)

11. Draw a neat diagram of the human alimentary canal. Label the following parts.
(a)small intestine (b)oesophagus (c) caecum (d) gall bladder. (3)

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