INDIAN SCHOOL SOHAR

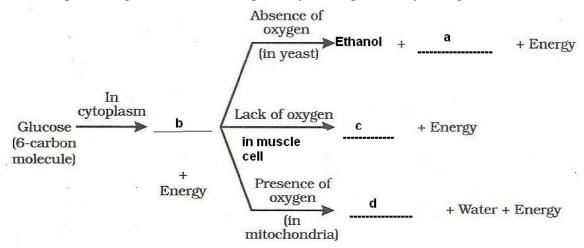
STD X FORMATIVE ASSESSMENT II-2014 3.6.14 SCIENCE Marks: 20 Time: 40mins

ANSWER THE FOLLOWING:-

- 1. State Joules law of heating. (1)
- 2. How does the resistance of a wire vary with its cross sectional area? (1)
- 3. Give an example of a strong acid and a strong base. (1)
- 4. Name the gas evolved when dilute sulphuric acid reacts with aluminium powder. How is it recognized? (1)
- 5. How is the small intestine designed to absorb digested food? (1)
- 6. In the given reaction name the substance which is (i)oxidized, (ii)reduced, (iii) the oxidising agent and (iv) the reducing agent.

 H₂S + I₂-----→2HI + S

 (2)
- 7. Three resistors of resistances 12Ω , 20Ω and 4Ω are connected in parallel. Find their Equivalent resistance. (2)
- 8.(i) Complete the glucose breakdown pathways in respiration by filling the blanks. (2)



- 9.Derive the relation for effective equivalent resistance, when three resistors are connected inseries?(3)
- 10. Compounds such as alcohols and glucose also contain hydrogen but are not categorized as acids. Describe an activity to prove this. (3)
- 11. Draw a diagram showing the human respiratory system. Label the following parts. (3) (a) Larynx (b) Trachea (c) Alveoli (d) bronchus.
