**INDIAN SCHOOL AL WADI AL KABIR**

**DEPARTMENT OF SCIENCE**

**EWS** 1 **Class XI**

**BIOLOGY Date: 05/06/16**

**HUMAN PHYSIOLOGY**

**(Holiday assignment)**

1. In human, protein digestion starts in stomach and ends in small intestine. Justify the statement with proper explanation. Name the different enzymes involved in this process.
2. Fat molecules are insoluble in water and cannot be directly absorbed into blood. How fat absorption take place in human beings?
3. Carbonic anhydrase is an important enzyme that plays a major role in transport of one of the respiratory gases. Identify the gas and explain the transport.
4. Define oxygen dissociation curve and give its importance.
5. Kidneys play an important role in maintaining osmotic pressure. Explain how kidney activities are regulated?
6. Explain the importance of vasa recta and Henle’s loop in concentrating urine. Give a diagrammatic representation of the same.
7. Explain the mechanism of muscle contraction in human. What is the role of calcium ions in the process?
8. With the help of neat labelled diagram explain the structure of skeletal muscle.
9. Name the different components of fore brain. Specify the function of each component.
10. Transmission of impulses between two neurons is chemically mediated. Justify and explain the process.

 *Prepared by, Rejitha Sajith*