**1. What is the importance/s of enzymes in the human body?**

**2. Enzymes are described as organic catalysts. What does this mean?**

**3. a) Define activation energy.**

**b) How do enzymes ‘speed’ up chemical reactions?**

**c) Without enzymes, how might activation energy be provided in the body?**

**4. Describe the lock and key model which is often used to describe how enzymes function.**

**5. What is an active site? What is important about this site?**

**6. Why are enzymes only required in small amounts/quantities?**

**7. Contrast between a co-factor and co-enzyme**

**8. Describe how temperature affects the action of enzymes.**

**9. Describe how pH affects the action of enzymes.**

**10. Describe how enzyme concentration affects action of enzymes.**

**11. Describe how substrate concentration affects action of enzymes.**

**12. What is an enzyme inhibitor? How does this affect the action of enzymes?**

**13. The following are a type of enzyme found in the body, find out what substrate (nutrient) it acts on:**

**i. lipase**

**ii. amylase**

**iii. protease**

**14.**

**a) Find out the specific names of the enzymes that are found/secreted in the:**

**i. stomach**

**ii. mouth**

**iii. duodenum**

**iv. small intestines**

**b) State the name/s of the specific gland/organ that secretes the enzymes that are found in locations above (i-iv).**