

**LAWRENCE COLLEGE, GHORA GALI, MURREE.**

**SYLLABUS AND HOMEWORK FOR VACATIONS-2**

**Class:9th      Subject: Biology**

**Syllabus:      Chapter: 5 and 6**

**(The questions mentioned below, should be answered by the student on proper stapled pages)**

- Q1: How does Cytokinesis occur in plant cells?
- Q2: Draw diagrams, showing Metaphase and Anaphase.
- Q3: Define Meiosis
- Q4: Define Chiasmata and Crossing over.
- Q5: Write scientific name of fruit fly.
- Q6: Define Optimum temperature.
- Q7: Write the equation for mechanism of enzyme action.
- Q8: Define Denaturation of enzyme.
- Q9: Write the function of Protease enzyme.
- Q10: Write the function of Lipase enzyme.
- Q11: Draw a graph, showing the effect of temperature on rate of enzyme catalyzed reaction.
- Q12: Write the uses of enzymes in Food industry and Brewing industry.
- Q13: Write the use of enzymes in Paper industry and Biological detergent.
- Q14: Differentiate between Intracellular enzymes and Extracellular enzymes.
- Q15: Differentiate between Substrates and Products.
- Q16: Draw a graph, showing effect of substrate concentration on rate of enzyme catalyzed reaction.
- Q17: In what type of pH, do the enzymes Pepsin and Trypsin work?
- Q18: Name the factors, affecting the rate of enzyme catalyzed reaction.
- Q19: What is the normal human body temperature in Celcius and Fahrenheit scale.
- Q20: Differentiate between Activators and Inhibitors.