

Name of the student: *Date:*/...../.....

Email me by answering the following questions—

❖ **Chapter-01: Lesson on Life**

- 1) Why is embryology physical branch of biology?
- 2) Why is entomology applied branch of biology?
- 3) How is Spirogyra more developed than blue green algae? —Explain.

❖ **Chapter-02: Cell and Tissue of Organism**

- 1) How does centriole help in cell division?
- 2) What is epithelial tissue? Write down the classification of epithelial tissue with example.
- 3) The structure of heart muscle is like that of voluntary muscle and the function is like that of involuntary muscle. —Explain.

❖ **Chapter-03: Cell Division**

- 1) How does a zygote develop to a complete organism?
- 2) What would have happened if mitosis had not occurred?
- 3) How does a human baby acquire the same number of chromosomes as its parents?
- 4) Write down the difference between haploid and diploid.
- 5) Write down the difference between karyokinesis and cytokinesis.

❖ **Chapter-04: Bioenergetics**

- 1) Write three differences between phosphorylation and dephosphorylation.
- 2) Write three differences between light phase and dark phase of photosynthesis.
- 3) Why do leaves act as the sites for photosynthesis?
- 4) How are 38 ATP produced?
- 5) Write three differences between photosynthesis and respiration.

❖ **Chapter-05: Food, Nutrition and Digestion**

- 1) How does stomach help in digestion?
- 2) Why are most of the foods are fully digested in the small intestine?
- 3) How is fat digested? —Explain.

❖ **Chapter-06: Transport in Organisms**

- 1) How does water from the soil reach the leaves of the tree?
- 2) How does transpiration help to create right condition for osmosis?
- 3) Write down the role of xylem and phloem in transportation.
- 4) Write down the classification and functions of white blood corpuscles.
- 5) Why is it important to know about the blood group?

❖ **Chapter-07: Exchange of Gases**

- 1) How does diaphragm help in respiration?
- 2) How does gaseous exchange occur in between air sac and blood vessels of the lung?

❖ **Chapter-08: Excretory System**

- 1) Why is it important to excrete excretory products from the body?
- 2) How does glomerulus produce filtrate from blood?