



# JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet – 2020

Grade – 13 (2020) | Biology

Name/Index No : .....

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## Essay Questions.

1.
  - a. Describe the ultra structure of chloroplast as seen under electron microscope.
  - b. Explain the processes occur in the thylakoid membranes of chloroplast.
2.
  - a. Explain the secondary growth of a dicot stem in relation to dicot root.
  - b. Briefly describe the structure of matured dicot stem as seen through the light microscope.
3.
  - a. State the main functions of human skeletal system.
  - b. List down the main types of skeletons of animal kingdom and briefly describes the organization of each providing an example.
4.
  - a. Explain the role of T and B lymphocytes providing acquired immunity in human.
5.
  - a. Mention the properties of DNA.
  - b. Explain the basic characteristics of DNA replication.
  - c. State the differences between prokaryotic and eukaryotic DNA replication.
6.
  - a. What is meant by solid waste?
  - b. Briefly explain the environmental hazards due to unorganized disposal of solid waste.
  - c. Discuss the techniques by which these problems can be minimized.
7. Describe the patterns of non Mendelian inheritance.
8. Explain the mechanism of polypeptide synthesis.

## Short notes.

- 9) a) Polymerase chain reaction.  
b) Values of Bio- Diversity.  
c) Blood clotting in human.

- 10) a) Genetic code.  
b) Epigenetics.  
c) Anterior pituitary hormones.