



# JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet – 2020

Grade – 12 (2021) | Biology

Name/Index No : .....

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## Essay Questions.

1. Explain the importance of water for the existence of life.
2.
  - a. Explain the factors affecting enzymatic activity.
  - b. Briefly describe the enzymatic activity take place in bio chemical reactions.
  - c. state about the feedback inhibition in enzymes.
3.
  - a. Explain the differences of aerobic respiration regarding to anaerobic respiration in plants.
  - b. State the locations of aerobic respiration and briefly describe the major changes in the respiratory substrate.
4.
  - a. Explain how the ultra structure of a chloroplast differntiate to photosynthesis in a temperate dicot plant.
  - b. State the characteristic features of a C4 plant to avoid photorespiration.
  - c. State the negative impacts of photorespiration.
5.
  - a. Explain the processes related to the formation of primary protocell.
  - b. List down the features of Darwin Wallace theory that differ from Neo-darwinism and Larmarck's theory.
6. Explain the characteristic features of Anthophyta for terrestrial life.
7. Explain the secondary growth of a dicot stem in relation to root.
8.
  - a. Describe the structural features of simple ground tissues.
  - b. Explain the primary growth of a young plant in the regions of developing apical meristem.
  - c. States the gross structure and the functions of epidermis.

9.

- a. State the concept of water potential by explaining the concepts of solute potential and pressure potential.
- b. Explain the changes in the water potential components of a vacuolated plant cell due to entry and exit of water through the plasma membrane.
- c. List down the principles of the experiment which determines the water potential using potato tubers.

10.

- a. Compare the basic characteristic features of alternating generation life cycle of Cycadophyta regarding to Anthophyta.
- b. States the significance of development of seed and the main physiological changes taking place at the beginning of seed germination.

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