JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet (2) – 2020

Grade – 13 (2020 | Biology

Name/Index No : …… Mrs.T.Anusha, B.Sc (Hons), M.Phill, PGDE

INSTRUCTIONS :

- Answer all the questions.
- Answer the questions on answer sheets only.
- Read the respective lesson units thoroughly and comprehend before you attempt answering the questions.
- File the completed answer and hand over to the class teacher when the school reopens.

Essay Questions.

1.

a) What is meant by mutation?
b) Explain the types of mutation and the methods they appear.

2.

c) State about sex determination in human.
d) Explain the sex linked characters of human.

3.

e) Explain the mechanism of transportation of water from soil solution to root xylem in plants.
f) Write how you will determine the solute potential of potato tuber cells in Laboratory.

4.

g) Explain the techniques used to sterilize glass wares in a microbiology lab.
h) State the steps of the practical that you carryout to observe micro organisms in a given curd sample.

5.

i) What is homeostasis?
j) Explain the activities of human liver regarding homeostasis.

6.

k) What is an ecosystem?
l) Briefly explain the major characteristics of the four types of forest ecosystem in Sri Lanka.

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7.

m) Describe the gross structure of the human kidney.

n) Explain the major steps of involved in urine formation in human.

8.

o) Describe the structure of cell membrane.

p) Explain the exchange of materials through the cell membrane.

9.

q) Explain the steps of DNA isolation from a cell.

r) Describe the major tasks of Agarose gel electrophoresis.

s) Describe an application of gene technology.

10. Short notes.

    1)Human cerebellum.

    2)Characteristics of enzymes.

    3)Theory of natural selection.

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