

BA SANGAM COLLEGE

YEAR 13

AGRICULTURAL SCIENCE

WORKSHEET 5

Multiple Choice Questions

1. Which of the following aquatic organisms was introduced from India in 1975?
 - A. Carp
 - B. Tilapia
 - C. Blackish water prawn
 - D. Malayan freshwater prawn

2. The nutritional deficiencies in soil can be identified by
 - A. plant analysis and soil testing.
 - B. soil testing and the study of soil colour.
 - C. the study of soil formation and soil colour.
 - D. plant analysis and the study of soil formation.

3. An example of a silicate clay mineral is
 - A. illite.
 - B. kaolinite.
 - C. vermiculate.
 - D. montmorillonite.

4. When Prasad inspected his plots, he noticed that the leaves of the tomato plants were folded upwards. This was due to the
 - A. infertility of the soil.
 - B. dehydration of the plants.
 - C. higher water table in the soil.
 - D. presence of nematodes in the soil.

5. Which method of Post Harvest Management of crop involves the maintenance of quality and quantity for a long period of time?
 - A. storage
 - B. processing
 - C. preservation
 - D. mode of transportation

Short Answer Questions

Question 1

- (a) State one reason why rice is Fiji's highest imported agricultural commodity.
- (b) Write down two importance of sampling soil.
- (c) Ion exchange occurs between the surface of soil colloids and soil solution. Distinguish between anion exchange and cation exchange.
- (d) State the functions of the following minerals in plants:
 - (i) Calcium_____
 - (ii) Iron _____
- (e) Differentiate between liabilities and equities.
- (f) The farmer bought a disc plough on the 31st of May 2012 at the cost of \$11,000.00. The residual salvage value of the disc plough is \$1,000.00 and the useful life of the implement is 5 years.

Calculate the annual depreciation value of the disc plough.

Question 2

- (a) Distinguish between a **mobile** and an **immobile** element in plants, giving an example of each element to support your explanation.
- (b) The Year 13 Agricultural Science students were given empty one litre oil gallon container to reuse after being used from the school canteen. Using the information in the table below discuss the three steps in preparing the container for planting tomatoes as their school project.

1. Empty one litre oil gallon
2. Iron rod
3. Kitchen knives
4. Scissors