

Ba Sangam College
Year 12
Agriculture
Worksheet 1

Answer the following question. **Note:** Answer with blue or black ink, no use of pencil.

1. **Whole farm budget** is not used for
 - A. calculating tax
 - B. assessing the farms financial situation
 - C. requesting financial assistance from lending agencies.
 - D. identify reliable input and output prices.

2. **Partial budget** is prepared when
 - A. starting the business
 - B. During the progress of the business when there is a slight change made.
 - C. at evaluation stage
 - D. at the planning stage

3. Which **one** from the list is not a farm analysis tool
 - A. gross margin
 - B. profit and loss account
 - C. balance sheet
 - D. inventories

4. Which statement is true about **IPM**?
 - A. The use of all techniques at the same time to reduce pest population.
 - B. The manipulation of pest population to prevent them from causing injury.
 - C. The intelligent selection and use of pest control methods to control pest population.
 - D. The manipulation of plants genetically to increase their resistance to pest attack.

5. A **small machine** which is used for detecting problems with egg shells.
 - A. mist blower
 - B. egg grader
 - C. debeaking machine
 - D. candling machine

6. One of the ways **zoonosis** is transmitted to humans is
 - A. a tick or mosquito bite
 - B. sharing of tattoo needles
 - C. not practicing proper hygienic practices.
 - D. not covering the mouth while coughing

7. **Quarantine** being a regulatory method of pest control can be best described as the
 - A. Removal of unwanted agricultural products.
 - B. Certification of all diseased agricultural products.

- C. Reporting and certification of all unwanted agricultural products.
 D. Prevention of the introduction of unwanted agricultural products.
8. Which **one** from the list is not an agricultural biotechnology applications
 A. Animal breeding
 B. Resistant crops
 C. Biofuels
 D. Compost
9. The **poisoning** of a plant by applying too much of a particular nutrient is termed as
 A. Deficiency
 B. Chlorosis
 C. Mobility
 D. Toxicity
10. Which type of **pollution** includes temperature, water vapour movement and carbon dioxide
 A. Noise pollution
 B. Other pollutants
 C. Air pollution
 D. Soil and water pollution
11. What is the **purpose** of the diagram given below?



- A. Is to remove rice grains from the rice straws
 B. To cut grass for animal feed
 C. To extract honey from conventional frames
 D. To extract sugar from sugar cane
12. The collection for use, conservation and breeding such as seeds for **genetic use** is referred as an
 A. tissue culture
 B. green house
 C. nursery
 D. artificial insemination

13. The **chronological overview** of expected income and expenses over a given period of time is

- A. Partial budget
- B. Enterprise budget
- C. Cash flow budget
- D. Whole farm budget

14. A tool used to show relative returns for enterprises when land is the limiting factor.

- A. Gross margin
- B. Total revenue
- C. Income
- D. Return to labour

Short Answer Question:

- (a) Differentiate between **return to labour** and **return to capital**
- (b) **State** the purpose of preparing a **budget** for a farm enterprise
- (c) Give **one** reasons why **cash flow budget** is a useful tool in agriculture.
- (d) State **two** factors when deciding to choose an enterprise to engage in.
- (e) Define the term **dead stock** in relation to agricultural production
- (f) The table below shows the income and input costs of two enterprises on a farm. Use this table to **answer** the questions which follow.

		Dalo	Yams
Income		4660	6000
Variable cost/ha			
	Cultivation	100	70
	Planting material	680	250
	Fertilizer and pesticides	180	180
	Trellising	-	271
	Transport and marketing	150	150
Fixed cost			1055

Calculate the following and show all working:

- (i) **Gross margin** for this farm.
- (ii) Calculate the **return to capital** for the crop yams.
- (g) Identify current issues which impact the agricultural community.
- (h) Examine the advantages and disadvantages that each issue has in relation to the agricultural community.
- (i) Evaluate and communicate the response of the agricultural community to each issue.

- (j) List and discuss **three** types of POLLUTIONS?
- (k) What are the some factors that are affecting the Agricultural Sectors in Fiji?
- (l) List down **four** effects of Pollution?
- (m) Discuss two effects of the pollutants on crop and livestock in Fiji
- (n) List two causes of Climate change on the Agricultural Crops in Fiji.
- (o) List down the advantages of:
- a. Soil Salination
 - b. Changing rainfall patterns.
 - c. Rising sea levels:

Essay

Question 1

Soil organisms are an essential part of soil which is used for agricultural purposes.

With reference to the above statement, discuss **three**:

- importance of soil organisms
- requirements of soil organisms
- husbandry practices which assist in the growth of soil organisms

Question 2

Farm management is a dynamic process which needs current information to be effective.

With reference to the statement above, discuss **three**

- phases of farm management
- importance of managing the finances of a farm
- ways in which budgets assist farmers