

BA SANGAM COLLEGE

YEAR 12

AGRICULTURAL SCIENCE

WORKSHEET 3

Question 1

- a. The husbandry practices enhance the growth of soil organism population. List and explain any **two** husbandry practices?
- b. Differentiate between soil micro and soil mega fauna?
- c. Vermiculture is a growing business in many countries. Explain what is Vermiculture ?
- d. Soil organisms are very important to farmers. List any **two** importance of soil organisms?

Question 2

- a. A farmer has a 2 – hectare farm where mixed – cropping is practiced. Given below are the income and expenditure that incurred on the farm.

Long bean : 1 ha

Chinese cabbage : 1 ha

Requirements/ha	Long Bean	Chinese Cabbage
Total income	\$6000	\$5000
Variable cost	\$3000	\$2000
Fixed cost	\$1000	\$1000
Labor requirement	100 man days	80 man days

NOTE: assume no labor was hired on the farm

Calculate the following and show all working:

- i. Gross profit for this farm
- ii. Return to labor for long bean
- iii. Net profit of the farm

ESSAY WRITTING

QUESTION 1

There are a number of methods used to determine and observe the organisms present in soil. These range from observing macro-fauna to micro flora.

- Identify the **three** methods used to determine if microorganisms are present in soil
- Explain the **three** methods used to determine if microorganisms are present in soil.
- Explain **three** importance of soil organisms