

BA SANGAM COLLEGE

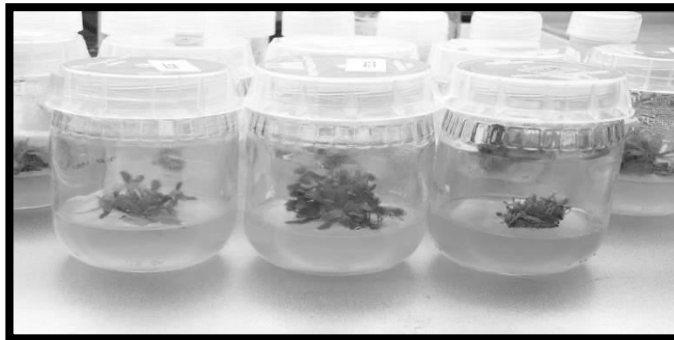
YEAR 12

AGRICULTURAL SCIENCE

WORKSHEET 5

Multiple Choice Questions

1. The development and severity of the injury or effect of pollution depends on
 - A. The length of exposure to the pollutant.
 - B. Concentration of the particular pollutant.
 - C. The species and its stage of development.
 - D. All of the above.
2. A plant, animal or micro-organism whose genetic material has been altered using genetic engineering techniques is called
 - A. Hybridization.
 - B. Tissue culture.
 - C. Invasive species.
 - D. Genetically modified organism.
3. The diagram given below illustrates an application of bio-technology that can improve food security.



Source: www.linkedin.com

The above application best describes as

- A. Vaccines.
- B. Aesthetic applications.
- C. Nutrient supplementation.
- D. Plant and animal breeding.

Modern agriculture and farm machinery

QUESTION 1

- a. State 2 goals of modern agricultural practices?
- b. GMO is a plant, animal or micro-organism whose genetic material has been changed using genetic engineering techniques. State two advantages of GMO?
- c. List two challenges to achieving food security?
- d. State two ways zoonotic diseases are transmitted to human beings?
- e. Explain two ways how farmers can minimize introduction of zoonoses from human to animals?
- f. How does a climate change affect the biodiversity?

QUESTION 2

- a. Machine is a device for transmitting or modifying force or energy. List two disadvantages of farm machines?
- b. List any two husbandry machines used for husbandry practices?
- c. Selecting farm machines wisely can increase the yield. State any four factors to be considered when selecting small farm machines?
- d. Discuss two reasons why farm machines should be maintained and stored well?
- e. List two general safety rules that are to be observed when operating farm machines.
- f. List four steps in maintaining small machines.

Financial Capital

QUESTION 3

(a) The table below contains information taken from a farm's 2021 budget.

If land is the limiting factor on the farm, based on calculations, which commodity should the farmer produce.

	Unit	English cabbage	French beans
Variable cost	\$	3000.00	1500.00
Total income	\$/ha	6000.00	4500.00