

## YEAR 12 AGRICULTURAL SCIENCE WORKSHEET 2

*Take note: Please attempt the questions at the back of your Agricultural Science Note book.*

### ESSAY QUESTION

#### INSTRUCTIONS

Write an essay of approximately **180-200** words to answer each question.

Please note that the allocation of marks for the content has been included for each question and **1** mark is allocated to the structure of the essay. Each question is worth **10** marks.

In this section, you are given an opportunity to show that you can:

- (i) select ideas relevant to the topic;
- (ii) use appropriate examples; and
- (iii) communicate information clearly and logically.

#### Question 1

**Agriculture is crucial to each of the seven billion humans on earth because it allows us to fill our plates every day.**

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

- dimensions of food security (3 marks)
- ways in which agro-biotechnology impacts agricultural production (3 marks)
- effects of zoonotic diseases on agricultural production (3 marks)

#### Question 2

**The agriculture sector is affected by environmental issues, modern practices and production concerns.**

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

- effects of pollution on agricultural production (3 marks)
- effects of climate change on the growth of crops and livestock (3 marks)
- challenges to achieving food security (3 marks)

#### Question 3

**Budgeting is an estimation of income and expenditure over a period of time.**

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

- purpose of budgeting (3 marks)
- uses of whole farm budget (3 marks)
- components of a whole farm budget (3 marks)