

2022 MSCE EXAMINATION MOCK

AGRICULTURE

Date: Monday 23rd May 2022

PAPER I

(100 Marks)

Time Allowed: 2 hours

Time :

Instructions:

1. This paper has 9 questions .
2. Mark each attempted question in the table on this page.
3. Write your name on top of each answer sheet.
4. Answer all questions in both sections. Marks are indicated against each question.

| No | Tick if Answered | Do not write in these columns | |
|-------|---------------------|----------------------------------|--|
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| Total | | | |

SECTION A (70 marks)

Answer all the questions in this section.

1. (a) Mention **two** types of soil structure

(2 marks)

(b) Describe any **two** ways of improving soil structure.

(4 marks)

2 (a) List **two** problems associated with irrigation.

(2 marks)

(b) Give **one** solution associated with the problems mentioned in 2a above.

(1 mark)

3(a) State any **two** signs that show a cow is on heat.

(2 marks)

(b) Describe any **two** management practices recommended for a dairy cow before weaning.

(4 marks)

c. A cow showed the following signs of a disease attack:

- Inflammation of the udder
- Failure of the cow to secrete milk.

Use the information to answer questions that follow.

i. Name the disease. _____ (1 mark)

ii. Give **two** ways of controlling the disease
_____ (2 marks)

(d) Draw an udder of a cow and label any two parts.

(4 marks)

4. A form 4 student was very hungry and ate a meal with fish at kokorestaurant. The owner of the restaurant bought the fish from Ngwangwa at Kasungu market which was bought by jack who bought the fish from chika fishermen

(a) Draw the marketing channel for the fish.

(5 marks)

b) Mention the type of marketing channel drawn

_____ (1 mark)

c. Give a reason for the answer mentioned in (b) above

_____ (2 marks)

d. List any **two** ways how marketing of agricultural commodities is important

(4 marks)

5. Explain **two** advantages of involving both men and women in decision making in agricultural production

(4 marks)

6 (a) Define the term climate change

(2 marks)

(b) Explain any **two** ways how climate change affects livelihood

(4 marks)

c. Describe how each of the following practices mitigate climate change in agriculture.

i. rain water harvesting

(2 marks)

ii. conservation agriculture

(2 marks)

7(a) State any **two** main types of pasture

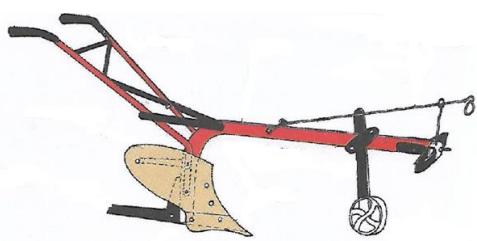
(2 marks)

(b) Outline the steps followed to preserve pasture as silage

(7 marks)

8. Draw a diagram of mushroom and label any two parts (4 marks)

9. Figure 1 is a diagram showing a farm implement. Use it to answer question a to d



a. Identify the farm implement _____ (1 mark)

b. Name the source of power used when operating the farm implement _____ (1 mark)

c. Explain any **two** ways of maintaining the farm implement

(2 marks)

d. Explain any **two** factors that limits smallholder farmers to use the implement in Malawi

(4 marks)

10. State any **two** degrees of supply to price changes

(2 marks)

b. The change in price of Irish potatoes from k6000 to k6500 resulted in the change of demand from 500kg to 3200 kg at a certain amarket

Calculate the price elasticity of demand for the Irish potatoes

(4 marks)

SECTION B (30 Marks): ESSAY QUESTIONS

Answer **all** the questions in this section in the spaces provided.

11. Discuss any **five** problems associated with land as a factor of production.

(10 marks)

(10 marks)

12. Describe any **five** ways how agricultural production promotes industrial development.

(10 marks)

13. A farmer was provided with the following innovations

- Plant bleeding
 - Fertilizer application
 - Mechanization
 - Food storage
 - Stock feeding

Explain how a farmer would use each of the above innovations to increase production.

10 marks

10 marks)

END OF QUESTION PAPER