

MID TERM 1 EXAMINATION 2019
S.3 AGRICULTURE P1
TIME: 2 HOURS

INSTRUCTIONS

Answer all questions from part A

Answer atleast two question from each section I and II of part B

PART A

Answer by circling the best alternative (4mks)

1. which of the following is a cultural method of weed control

A. crop rotation B. slashing C. weeding D. pruning

2. Causes of soil erosion include the following except

A. overgrazing B. overcropping C. bush fallowing D. deforestation

3. Which one of the following is not an example of organic manure

A. green manure B. NPK C. farm yard manure D. compost manure

4. Soil acidity is caused by a high concentration of

A. hydrogen ions in the soil

B. hydroxide ions in the soil

C. iron

D. calcium ions

2(a) Describe the characteristics of a good green manure plant(6mks)

i)

ii)

iii)

iv)

- v)
- vi)

3a) What symptoms are exhibited by crops growing in nitrogen deficient soils?
(5mks)

- i)
- ii)
- iii)
- iv)
- v)

b) Outline the different ways through which nitrogen is lost from the soil (5mks)

- i)
- ii)
- iii)
- iv)
- v)

PART B

SECTION I

SOIL SCIENCE

4a) Describe the effects of soil erosion on arable land. (10mks)

b) Explain the types of water erosion well known to you (10mks)

5a) Describe the procedure followed when making compost manure using indore method(10mks)

b) Discuss the advantages of using organic manures in crop production (10mks)

6a) Give the importance of soil air (6mks)

b) Describe an experiment to determine the amount of air in a soil sample
(14mks)

SECTION II

CROP PRODUCTION

- 7a) Describe the economic importance of weeds in crop production (10mks)
- b) Explain the characteristics that make weeds more successful than crops (10mks)
- 8a) What are the objectives of land preparation? (7mks)
- b) Describe the factors that favor the use of ox-ploughs in land preparation. (7mks)
- c) Outline the advantages of ox-cultivation (6mks)
- 9. Explain the various cultural methods of weed control (20mks)

END

GOOD LUCK