

GRADE 10 OPENER TERM 2 2026 ASSESSMENT

AGRICULTURE

Name: _____ ADM NO _____ CLASS.....

TIME: 2 HOURS

Answer all the questions in the spaces provided.

SECTION A. (30 MARKS)

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1.What is altitude? (1 mark)

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2.Moses is a farmer in Nakuru, he plans to plant some trees in his farm

(a) Name five natural factors that can affect his land productivity. (5 marks)

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(b) State two benefits of planting trees in the farm. (2 marks)

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3.What is soil profile? (1 mark)

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4. Explain four factors you would consider when evaluating the utility of the land for crop production. (8 marks)

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5.State **TWO reasons** why land is important in agricultural production. (2 marks)

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6.Write down two disadvantages of buying as a way of acquiring agricultural land (2 marks)

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7. Judy was asked by her teacher to name the three types of soils. Which ones are they? (3 marks)

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8.Describe three aspects of rainfall that should be considered when determining productivity of land in agriculture (6 marks)

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SECTION B (70 marks)

9.A group of students visited a farm and observed the farmer preparing the land. Write down six reasons why proper land preparation is important in agricultural production. (6 marks)

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10. Describe three components of soil (6 marks)

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11. A farmer wants to grow vegetables. Explain the following properties of soil and their importance to crop production: (6 marks)

(a) Physical properties

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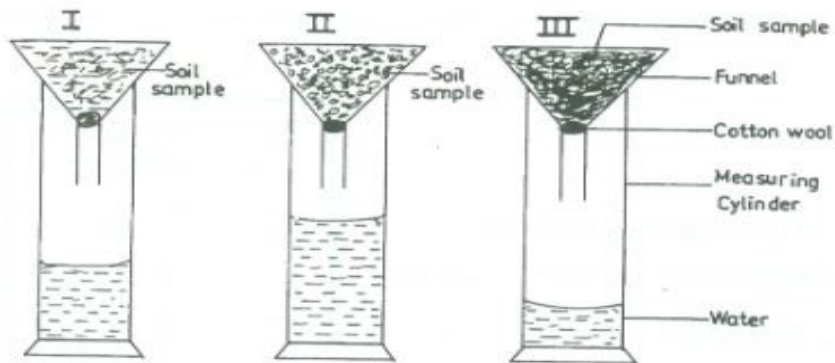
(b) Chemical properties

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(c) Biological properties

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12. Mwangi set up an experiment below to investigate a certain soil property.



a). Identify the aim of the experiment. (1mk)

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b). Name soil labelled I, II, III (3 marks)

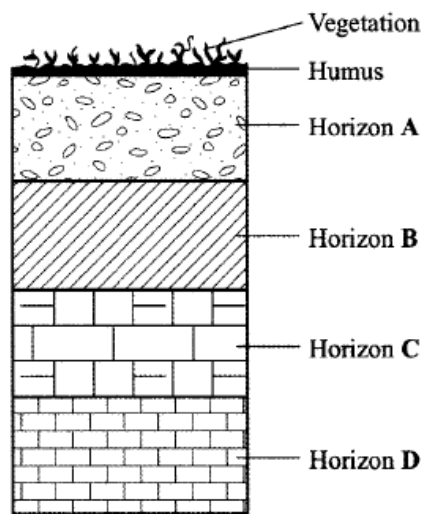
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13. Describe three physical properties of soil that influence crop production (6 marks)

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14. The diagram below shows soil profile.

(a) Label the horizons. (4 marks)



A: _____.

B: _____.

C: _____.

D: _____.

(b) Describe the characteristics of each horizon. (8 marks)

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15.Explain how the following soil properties affect crop growth.(6 marks)

(a) Soil texture

(b) Soil fertility

(c) Soil porosity

16.Explain how the soil profile affects crop production. (4 marks)

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17.Define soil pH and explain how it influences crop production (3 marks)

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18.a) **Define** conservation tillage. (2marks)

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b) Describe TWO conservation tillage practices used in crop production. (4 marks)

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c) Write down FOUR benefits of conservation tillage to the farmer and the environment. (4 marks)

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19. Describe two methods of clearing fallow land (4marks)

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20. Name the following soil structures (3 marks)

A

B

C



A

B

C