AGRICULTURE GRADE 10

OPENER EXAM TERM 2, 2026

TIME:2 HOURS

NAME……ADM NO……

DATE……SIGN……

INSTRUCTIONS TO CANDIDATES

1. ***Write your name and admission number in the spaces provided.***
2. ***This paper consists of THREE sections: A, B, and C.***
3. ***Answer ALL questions in ALL sections.***
4. ***All answers must be written in the spaces provided after each question.***
5. ***All working must be clearly shown where applicable***.

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. Define the term Agriculture as used in crop and livestock production. (2 marks)

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2. State FOUR branches of agriculture. (4 marks)

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3. Give THREE reasons why agriculture is important in Kenya. (3 marks)

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4. State FOUR factors that influence agriculture in Kenya. (4 marks)

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5. Classify the following crops by giving ONE example of each: (3 marks)

(i) Beverage crops

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(ii) Fibre crops

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(iii) Fodder crops

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6. Name the soil horizon that contains the highest concentration of organic matter. (2 marks)

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7. State FOUR properties of a good agricultural soil. (4 marks)

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8. List FOUR types of soil according to texture. (4 marks)

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9. Identify FOUR farm tools used during primary land preparation. (4 marks)

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10. State the function of the following farm tools: (4 marks)

(i) Jembe

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(ii) Pruning saw

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(iii) Wheelbarrow

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(iv) Garden fork

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SECTION B (40 MARKS)

Answer ALL questions in this section.

11. The diagram below represents a soil profile. Use it to answer the questions that follow. (0 mark)

Layer A	Dark coloured, rich in humus
Layer B	Lighter colour, less organic matter
Layer C	Weathered rock fragments
Layer D	Unweathered bedrock

(a) Name the layers labelled A, B, C and D on the soil profile diagram. (4 marks)

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(b) State TWO characteristics of the layer labelled A. (2 marks)

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(c) Explain why Layer D does not support plant growth. (2 marks)

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(d) State TWO ways through which organic matter in the soil is replenished. (2 marks)

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12. The table below shows soil types and their properties. Study it and answer the questions that follow. (0 mark)

Soil Type	**Water Retention**	**Aeration**	**Suitability for Farming**
Sandy	Low	High	Poor – loses water fast
Clay	High	Low	Poor – waterlogged
Loam	Moderate	Moderate	Best for crops

Silt	Moderate-High	Low-Moderate	Moderate

(a) Which soil type is most suitable for growing crops? Give a reason for your answer. (2 marks)

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(b) State TWO practices a farmer can do to improve sandy soil for crop production. (2 marks)

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(c) Explain why clay soil is difficult to work with during cultivation. (2 marks)

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(d) State FOUR factors that determine the type of soil in a given area. (4 marks)

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13. Study the information below about two methods of land preparation and answer the questions. (0 mark)

Farmer X ploughed the land deeply, breaking up large clods, then harrowed to make the soil fine and suitable for planting. Farmer Y cleared the land of vegetation, then used a hand hoe to prepare shallow seedbeds without deep turning of the soil.

(a) Identify the PRIMARY tillage method used by Farmer X. (1 mark)

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(b) Name the implement used by Farmer X to achieve a fine tilth. (1 mark)

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(c) State THREE advantages of deep ploughing as practised by Farmer X. (3 marks)

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(d) Give TWO disadvantages of the land preparation method used by Farmer Y. (2 marks)

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(e) State THREE factors that determine the choice of tillage method. (3 marks)

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14. The following are statements about water and irrigation in agriculture. Indicate whether each statement is TRUE (T) or FALSE (F) in the space provided.(5 marks)

(a) Drip irrigation delivers water directly to plant roots and minimises water loss. .....

(b) Furrow irrigation is best suited for tree crops planted in rows. .....

(c) Overhead (sprinkler) irrigation simulates rainfall and suits a wide variety of crops. .....

(d) Flood irrigation is the most efficient method of irrigation in terms of water use. .....

(e) Irrigation helps extend the crop growing season beyond the rainy period. .....

(f) State TWO negative effects of over-irrigation on soil. (2 marks)

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(g) List THREE sources of water for agricultural use in Kenya. (3 marks)

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SECTION C (30 MARKS)

Answer ALL questions in this section.

15. (a) Explain FIVE ways in which soil fertility can be maintained or improved on a farm. (10 marks)

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(b) Differentiate between organic and inorganic fertilisers under the following headings: (10 marks)

Aspect	**Organic Fertiliser**	**Inorganic Fertiliser**
Source		

Effect on soil structure		
Nutrient content		
Cost		
Speed of release		

16. (a) Describe the process of primary land preparation from bush clearing to seedbed preparation. (8 marks)

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(b) Explain FOUR factors a farmer should consider when choosing the method of planting. (4 marks)

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(c) Name and briefly explain THREE methods used to plant crops. (6 marks)

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(d) Explain how crop spacing affects crop growth and yield. (2 marks)

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END OF EXAMINATION