2910/105 AGRICULTURAL ENGINEERING I Oct/Nov. 2022

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN SUSTAINABLE AGRICULTURE AND RURAL DEVELOPMENT

MODULEI

AGRICULTURAL ENGINEERING I

3 hours

INSTRUCTIONS TO CANDIDATES

You should have the following for this examination Answer booklet; Non-programmable scientific calculator: Size A4 drawing paper;

Technical drawing instruments.

This paper consists of EIGHT questions.

Answer question ONE (COMPULSORY) and any other FOUR questions in

the answer booklet provided.

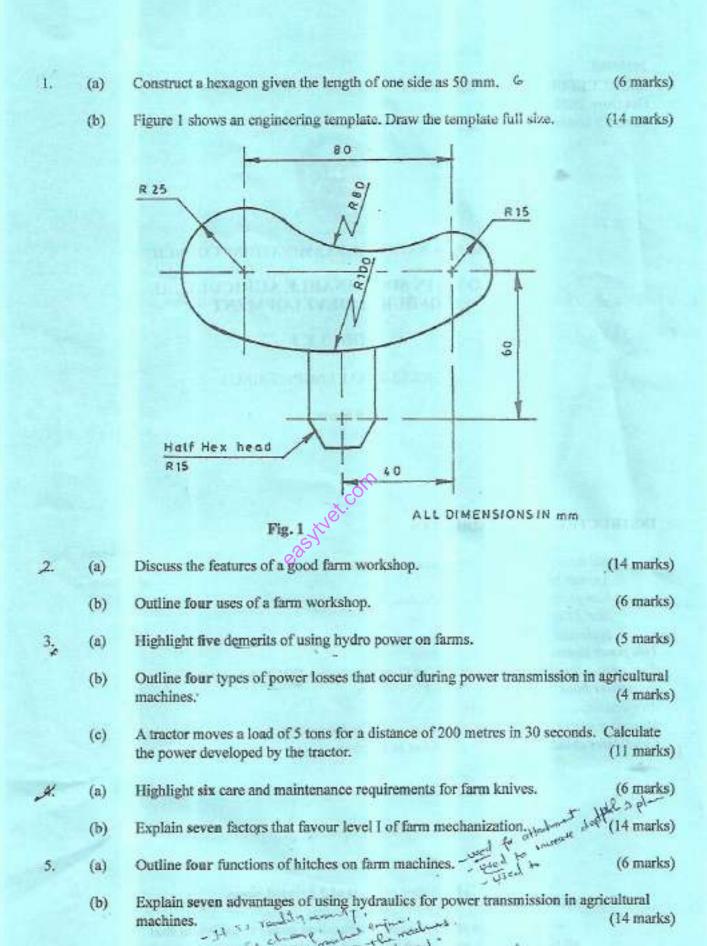
All questions carry equal marks

Maximum marks for each part of a question are indicated.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.



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| \$ | (a) | State four care and maintenance requirements for disc harrows. | (4 marks) |
|----|----------|--|------------|
| | (b) | Describe eight benefits of farm tillage. | (16 marks) |
| 7. | (a) | Outline four field adjustments carried out on a pick-up hay baler. | (6 marks) |
| | (b) | With the aid of a diagram, explain the operation of a pick-up hay baler. | (14 marks) |
| 3% | (a) | Outline three forms in which spray chemicals may be applied. | (6 marks) |
| | (b) | Explain five techniques of minimising the spray drift. | (10 marks) |
| | (c) - | Highlight four safety precautions observed when handling spray chemicals, wear protection of the second of the sec | (4 marks) |

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