



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE
2nd YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR
REGULAR

COURSE CODE: AHT 3227

COURSE TITLE: FARM MATERIALS AND STRUCTURES

EXAM VENUE:

STREAM:

DATE:

EXAM SESSION:

TIME: 2HOURS

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B**
 - 2. Candidates are advised not to write on the question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

Answer All Questions in this Section.

1. List the advantages of using natural fibres as construction material. (3 marks)
2. a) Briefly describe your understanding of the following: (3 marks)
 - i. Bill of quantities
 - ii. Hardware materials
 - iii. Farm structure.
- b) List the advantages of using plastic over glass materials in farm structures.(4 marks)
3. State physical and strategic consideration during structure siting on a farm. (4 marks)
4. List 10 factors that must be considered when choosing the materials for construction of farm structures. (5 marks)
5. Briefly outline the roles of a quantity surveyor in the building production process. (5 marks)
6. Briefly explain three methods of joining timber structures. (6 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

Answer Any Two Questions from this Section

7. Farm structures are built either, on a traditional basis without much improvement or by often too expensive materials. Citing relevant examples, discuss this statement.(20 Marks)
8. a) Citing examples, briefly describe four methods of joining metals on a farm structure. (8 marks)
- b) Describe the roles of six farm structures in horticulture. (12 marks)
9. Discuss 10 factors that influence the design of horticultural structures. (20 marks)
10. a) Briefly describe methods of preserving horticultural produce. (8 marks)
- b) Write an essay on storage structures on a horticulture farm. (12 marks)

