

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN SOIL

SCIENCE

2ND YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3227

COURSE TITLE: HORTICULTURAL MATERIALS AND STRUCTURES

EXAM VENUE:

STREAM:

DATE: 18/4/19

EXAM SESSION: 3.00 – 5.00PM

TIME: 2.00 HOURS

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

SECTION A: [30 MARKS]

1. Explain why is wood commonly preferred as a building material.	(4 marks)
2. Explain the importance of seasoning of timber.	(5 marks)
3. Describe how corrosion of metals can be controlled.	(3 marks)
4. Discuss the following:	
a. Farm stead planning	(3 marks)
b. Zone planning	(3 marks)
5. Discuss advantages and disadvantages of using plastic as a construction material (10 marks)	
6. State the differences between the hardwood and soft wood	(2 marks)

SECTION B: [40 MARKS]

- 7. Discuss
 - a. Four characteristics of wood that makes it suitable for construction (12 marks)
 - b. List the guidelines that will assist you when selecting the site for farm buildings and structures (8 marks)

8. Describe

- a. Five wood defects that can make it unsuitable for construction. (10 marks)
- b. Factors to be considered when choosing materials for construction. (10 marks)
- 9. Discuss important considerations when constructing a greenhouse (20 marks)10. Write an essay on:
 - a. The important factors to consider in farm planning. (10 marks)
 - b. The features that are important for a safe and efficient workshop (10 marks)