

# 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

## $2^{ND}$ YEAR $2^{ND}$ 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]**

	(4 mark	(	as a building material.	only preferred	s wood comm	why is	Explain	1.
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- 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)
  - The features that are important for a safe and efficient workshop (10 marks)