



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE**

2016/2017 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3327

COURSE TITLE: Landscape Establishment and Maintenance

EXAM VENUE:

STREAM: BSc. (Horticulture)

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1. Suggest the following:
 - a. Four types of containers which can be used for planting. **(2 Marks)**
 - b. Characteristics of the containers suggested in (a) above. **(4 Marks)**
 - c. Four characteristics of noxious weeds. **(4 Marks)**
 - d. Six steps of weed management. **(3 Marks)**
2. List
 - a. Four benefits of mulching. **(4 Marks)**
 - b. Three problems caused by excessive aquatic plant growth . **(4 Marks)**
3. Briefly explain the following terms:
 - a. Hardscape Selection. **(3 Marks)**
 - b. Plant and Turf Selection. **(3 Marks)**
 - c. Dealing with Diverse Sites Plant for Shade. **(3 Marks)**

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

4. Mwende has approached the Third Year Horticulture class of 2017 to explain to her how she can maintain trees in her landscape. Outline what the presentation of the Third Year Class will entail. **(20 Marks)**
5. One of the most important factors in the soil's structure is its capacity, like a sponge, to absorb water and hold it in its pores. Discuss ways in which the "sponge" can be restored. **(20 Marks)**
6.
 - a. Discuss five benefits of macrophytes. **(5 Marks)**
 - b. Discuss conditions macrophytes require to grow. **(15 Marks)**
7.
 - a. Ground covers are particularly useful in locations where grass will not grow. Discuss. **(8 Marks)**
 - b. When slopes are very steep, it is sometimes necessary to build retaining walls to hold the soil in place. Discuss. **(12 Marks)**