JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

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

2017/2018 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. Briefly discuss the following terms as they relate to landscape establishment:
   a. Sustainable landscaping. **(3 Marks)**
   b. Soils, Composting and Fertilizers. **(3 Marks)**
   c. Hardscape Selection. **(3 Marks)**
   d. Rocklines **(3 Marks)**
   e. Plant and Turf Selection. **(3 Marks)**

2.
   a. Briefly explain three steps which can be used in weed management. **(3 Marks)**
   b. Differentiate between the following physical strategies of combating weeds:
      i. Tillage or Cultivation. **(3 Marks)**
      ii. Hand Weeding or Pulling. **(3 Marks)**
      iii. Mowing or Cutting. **(3 Marks)**
      iv. Burning. **(3 Marks)**

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

3. The soil plays a crucial role in the regeneration of life on earth. It is of utmost importance therefore that the soil structure is of optimal quality to help regenerate life. Discuss how soil conservation and restoration can help restore the sponge capacity of degraded soils. **(20 Marks)**

4. Mwaniki has requested the third year class to give him guidelines on how he should maintain trees which are 3 years old. Outline what your presentation would entail. **(20 Marks)**

5. Kisumu Water and Sewerage Company has organized for a seminar on the problems of excessive aquatic growth. Outline possible points of discussion in that seminar. **(20 Marks)**