



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

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

ACH 305: LANDSCAPE DESIGN, CONSTRUCTION AND MANAGEMENT

DATE: APRIL 11, 2017

TIME: 11:00AM-1:00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- a) Differentiate between a Landscape and a Site. (4 Marks)
- b) A cross section of a road has been cut from Point A to Point B. Elevation of point A = 47 463 mm, Elevation of point B = 48 347 mm. Horizontal difference (L) between A and B = 35 357 mm. Calculate the following.
- i. The vertical difference (D) of the two points. (2 Marks)
- ii. Percentage slope of the road. (3 Marks)
- c) Outline the advantages of mulching in landscape maintenance. (3 Marks)
- d) Describe two methods of expressing slope in landscape installation. (4 Marks)
- e) Lights can be qualified as landscape elements. Briefly describe the roles of lighting in a designed landscape. (5 Marks)
- f) Describe the outdoor room concept as applied in Landscape Design. (5 Marks)
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- g) Outline some of the problems that face the landscaping business in Kenya (4 Marks)

QUESTION TWO

With the aid of well labeled diagrams differentiate between;

- i. Guying and staking (10 Marks)
- ii. Concave and convex topographical profiles (10 Marks)

QUESTION THREE

A client from Meru is thinking of transforming his piece of land into a wedding garden. You have been approached to prepare the Base map for the design. Discuss the information that you need to prepare the Base map. (20 Marks)

QUESTION FOUR

The University of Embu intends to design the area around the dam to create a recreational area for its students.

- a) Discuss the factors that will influence the design (10 Marks)
- b) Discuss the factors to consider in the selection of landscape vegetation (10 Marks)

QUESTION FIVE

A client is considering starting a greenhouse nursery for ornamental plants. As an expert, advice the client on the types of growing structures, covering materials, and purpose of greenhouses. (20 Marks)

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