



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (ENVIRONMENTAL HEALTH)

HEH 416: DRAINAGE AND CONSERVANCY

DATE: TUESDAY 6TH FEBRUARY 2018

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS:

SECTION A

Answer **ALL** questions

1. a) Citing relevant example, define the following terms:
 - i) Conservancy systems (2 marks)
 - ii) Eco-San systems (2 marks)
- b) Explain the functions of the following in conservancy system
 - i) Fly screens (2 marks)
 - ii) Vent pipe (2 marks)
- c) Give four features for an effective drainage system (4 marks)
- d) State four factors influencing the choice of an eco-system san system (4 marks)
- e) Explain the role of the following in drain access
 - i) Inspection chamber (2 marks)
 - ii) Man-hole (2 marks)

SECTION B

Answer Question **TWO** and any other **TWO** Questions

2. a) Explain the key factors that led to the adoption and implementation of Community-led-To-Total sanitation by the National Government (12 marks)
- b) Stating their roles and responsibilities, identify the key stakeholders in Environmental sanitation and hygiene management (8 marks)

3. a) Describe the key features of grey water (9 marks)
 b) Explain the merits and demerits of a pit-latrine (6 marks)
4. Describe the design and operation of a 'Norwegian carousal' as an example of a composting toilet. (15 marks)
5. a) Explain the physiochemical-biological factors that influence the survival of micro-organism in the environment (9 marks)
 b) Describe any two waste water fitments and fittings (6 marks)

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