



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN ENVIRONMENTAL HEALTH**

HEH 207: TECHNICAL DESIGNS AND DRAWING

DATE: Monday 2nd April, 2012

TIME: 8.00 a.m. – 10.00 a.m.

PART A – Answer ALL questions. (20 marks)

1. List any 5 reasons why we learn technical drawing. [5 marks]
2. Using a pair of compass construct a 60 degrees angle and divide it into two equal parts. [5 marks]
3. Draw a scale of 1:5 to measure up to 1.25 metres in millimeters. [5 marks]
4. What do the abbreviation ISO and BS stand for? [2 marks]
5. What are the three main competences involved in the discipline of technical drawing? [3 marks]

PART B – Answer question SIX and any other TWO questions.

6. Design and draw to a scale of 1:50 a ground plan of sanitary conveniences consisting of two water closets and a urinal for males and four water closets for females. Include hand washing facilities and drainage lines to cater for disposal of liquid waste. [20 marks]
7. Describe the plan approval process from the time the plan is received by the local authority to the time it is approved by the Full Council of that local authority. [15 marks]
8. Construct an ellipse using auxiliary circle method indicating your scale: major axis 90mm, minor axis 60 mm. [15 marks]
9. You have been posted as the Public health officer in charge of approval of plans at the City Council of Nairobi Public Health Development control office, discuss the requirements that you would look for before the approval of an application for construction of a Restaurant. [15 marks]

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