

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF LANDSCAPE ARCHITECTURE AND URBAN DESIGN
MASTERS IN URBAN DESIGN
2011-2012 ACADEMIC YEAR

PART 1- FIRST SEMESTER EXAMINATIONS MARCH 2012
BUD 6101 PRINCIPLES AND PRACTICE OF URBAN DESIGN I

Instructions

Time: 3 hours

1. Answer one [1] question in Section A and three [3] in Section B.
2. Use freehand sketches (Not To Scale) where necessary.
3. Each question carried 25 marks.

SECTION A

Question 1

Discuss and illustrate diagrammatically, the critical elements of sustainable urban design.

[25]

Question 2

Explain the concept of sustainable urban design and discuss the barriers to its achievement.

[25]

SECTION B

Question 3

Discuss the influence of the Renaissance ideas on modern design of urban spaces? Illustrate your answer with diagrams.

[25]

Question 4

Write short notes on the following elements of urban design:

- a) Buildings [5]
- b) Open spaces [5]
- c) Transport systems [5]
- d) Pedestrian walkways [5]
- e) Street furniture [5]

[25]

Question 5

Critically analyse the “Garden City” concept of Ebenezer Howard. Outline its applicability to modern African Cities?

[25]

Question 6

With the aid of examples highlight and discuss the major groupings of the urban design toolkit.

[25]