



**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF THE BUILT ENVIRONMENT**

**DEPARTMENT OF ARCHITECTURE**

**URBAN PLANNING AND DESIGN I**

**AAR 3106**

**Examination Paper**

**DECEMBER 2015**

This examination paper consists of 3 pages

**Time Allowed: 3 hours**

**Total Marks: 100**

**Special Requirements: A3 Bond Paper**

**Examiner's Name: Mr. Q. Ndebele**

**INSTRUCTIONS**

1. Answer Question 1 and any Three(3)
2. Each question carries **25 marks**
3. Where required give examples and draw illustrations and diagrams

**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
<b>TOTAL</b>	<b>100</b>

### **Question 1 (compulsory)**

Examine how the following urban design approaches can help arrest urban sprawl and decay in the city of your choice in Zimbabwe:

- a) Compact city [10]
- b) Smart city [10]
- c) Inner city [5]

### **Question 2**

- a) What are the merits of the multiple nuclei model over the concentric planning model in planning for third world cities? [15]
- b) By giving appropriate examples outline the stages that a rural center would need to go through in order for it to qualify into an urban centre status. [10]

### **Question 3**

- a) The regeneration of industrial cities has been a common topic in recent times. Discuss some of the major challenges that have emanated from industrial cities. [10]
- b) What are some of the steps that have been taken to mitigate the challenges of industrial cities and to what extent have they been successful? [15]

### **Question 4**

With reference to the **CBD** of your choice, investigate how the following urban design principles and elements help make up a functional city scape.

- a) Colour and form [5]
- b) Line and space [5]
- c) Light and texture [5]
- d) Dominance and balance [5]
- e) Ergonomics and rhythm [5]

**Question 5**

The Bulawayo City Council's Master Plan of 1988 outlines many future developments that are yet to be implemented in the city. What planning models do you believe were used in the composition of this document?

**Question 6**

- a) What are the major socio- economic factors that have outlined the development of cities in Southern Africa? [10]
  
- b) By using a specific example of any Southern African City, relate these factors to the physical environment, showing how they have influenced the urban characteristics of the city. [15]