



THE TECHNICAL UNIVERSITY OF KENYA

SCHOOL OF ARCHITECTURE AND BUILT ENVIRONMENT

Department of Urban and Regional Planning

Bachelor of Built Environment in Urban Design and Development
Bachelor of Built Environment in Urban and Regional Planning

Year III Semester II EXAMINATION

EAPQ 3235 Urban Design Principles and Methods

EAPR 3235 Urban Design Principles and Methods

Time: 2 hours

INSTRUCTIONS TO CANDIDATES

Answer Question One and any other Two Questions of Your Choice from Section Two in the Answer Booklet Provided. Start each Question in a Fresh Page.

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Answer 3 Questions. Question One from Section One and any other Two Questions of your choice from Section Two.

Section One: Compulsory (30 marks)

Question 1

- a) Define any (5) Five Objectives of Urban Design listed below. [5 marks]
- | | |
|---------------------------|-----------------|
| i. Aesthetics | v. Adaptability |
| ii. Functional Efficiency | vi. Legibility |
| iii. Character | vii. Diversity |
| iv. Ease of Movement: | |
- b) Briefly explain the differences between Architecture, Urban design and Urban Planning with reference to the following:-
- | | |
|------------------------|-----------|
| i. Scale | [3 marks] |
| ii. Treatment of Space | [3 marks] |
| iii. Time frame | [3 marks] |
- c) Briefly explain the contribution of any (2) two of the following individuals to urban design
- | | |
|--|-----------|
| i. Lewis Mumford (1895-1990), | [3 marks] |
| ii. Le Corbusier, born Chales-Eduouard Jeanneret (1887-1965) | [3 marks] |
| iii. Frank Lloyd Wright (1867-1959) | [3 marks] |
- d) Discuss the following statement "is There Need for Urban Design?" [5 marks]
- e) State and briefly explain any five principles of "New Urbanism" [5 marks]

Section Two

Question 2

Using illustrations explain the elements of Urban Design by Kevin Lynch? [20 marks]

Question 3

- a) Discuss the importance of urban streets and squares as public spaces [10 marks]
- b. Using illustrations, briefly explain any (2) two of the following
- | | |
|-------------------------|-----------|
| i. Figure-Ground Theory | [5 marks] |
| ii. Linkage Theory | [5 marks] |
| iii. Burgess theory | [5 marks] |
| iv. Place Theory | [5 marks] |

Question 4

You have been commissioned to formulate urban design guidelines and undertake an urban regeneration exercise for an urban area within Nairobi. State and explain the procedure you would follow to undertake the assignment. [20 marks]

Question 5

- a) Explain the application and importance of any four of the following urban design techniques [20 marks]
- | |
|---------------------------|
| i. Accessibility Analysis |
| ii. Behaviour Observation |
| iii. Building Age Profile |
| iv. Ped-Shed Analysis |
| v. Space Syntax Analysis |
| vi. Urban Morphology |