

**NATIONAL UNIVERSITY OF LESOTHO**  
**BURP EXAMINATION**  
**GES 3354 – SITE PLANNING AND DESIGN**

**JANUARY 2024**

**MARKS: 100**

**3 HOURS**

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Instructions: Answer any **four (4)** questions and where necessary illustrate your answer with the use of appropriate diagrams.

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**Question 1**

Explain any two advantages and two disadvantages of the Environmental Unit pattern.

(25 marks)

**Question 2**

Outline the meaning of the following concepts/terms as used in urban design.

- a) Road hierarchy (5)
- b) Place making (5)
- c) Circulation (5)
- d) Accessibility (5)
- e) Cul-de-sac (5)

**Question 3**

- i) Explain the concept of a semi-detached housing plot (5)
- ii) Explain any two advantages and disadvantages a semi-detached plot in urban design (20)

(25 Marks)

**Question 4**

- a) Explain the meaning of a plot system. (5)
- b) Discuss the importance of a plot system in residential layout design. Illustrate your answer using any one of the multi-family plot units. (20)

(25 Marks)

**Question 5**

Explain any 2 similarities and 2 differences between Planned Unit Development and the Radburn superbloc.

(25 Marks)

**Question 6**

- a) What is an arterial road. (5)
- b) Discuss the function of arterial roads in a residential subdivision. Indicating issues that a designer needs to consider when designing an arterial road.

(20)  
(25 Marks)