

NATIONAL UNIVERSITY OF LESOTHO

B.Sc. & BA EXAMINATION

ES 3303- Principles of Environmental Planning

May 2023

Total Marks: 100

Time: 3 hours

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**INSTRUCTIONS**

- Question **one (1)** is mandatory
- *Answer any three other (3) questions*
- Each question carries **25 marks**

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**Question 1**

- a) List four (4) major goals of Environmental Planning. [4]
- b) Outline the planning principles. [7]
- c) What is the need for planning? [4]
- d) Explain these types of planning.
  - i. Physical planning [5]
  - ii. Environmental planning [5]

[25]

**Question 2**

- a) Discuss the concentric ring theory as Model of Urban Land Use Planning. In your discussion include; who and when this theory was developed, the zones in the chronological order. [10]
- b) Draw a diagram demonstrating the planning process. [5]
- c) Explain the following stages of planning
  - I. Data collection [5]
  - II. Plan implementation [5]

[25]

**Question 3**

- a) Explain these types of solid waste
  - i. Municipal solid wastes [2]
  - ii. Industrial solid wastes [2]
  - iii. Agricultural Solid Wastes [2]
  - iv. Construction and demolition wastes [2]
  - v. Healthcare wastes [2]
- b) Explain the Impact of poor Solid Waste Management [5]
- c) Discuss the problems of Solid Waste Management. [10]

[25]

**Question 4**

- a) State the psychological effects of noise pollution. [5]
- b) Explain the effects of Air Pollutants on plants [5]
- d) Discuss the control and mitigation measures of soil pollution. [10]
- c) Give a full detail on the point sources of water pollution. [5]

[25]

**Question 5**

- a) What are the causes of Earthquakes? [5]
- b) Briefly discuss factors that contribute to flooding. [10]
- c) Outline the economic impacts of drought. [5]
- d) What are the causes of Landslides? [5]

[25]

**Question 6**

Briefly discuss the following environmental imbalance caused by Human Activities

- a) Agriculture [5]
- b) Industrialization [5]
- c) Urbanization [5]
- d) Transportation [5]
- e) Mining [5]

[25]