

NATIONAL UNIVERSITY OF LESOTHO

BSc ENVIRONMENTAL HEALTH

FINAL EXAMINATIONS

January 2024

TIME: 3 HOURS

EHS2301: HOUSING AND HEALTH

100 Marks

Instructions to candidates

- 1. Attempt all questions.**
- 2. Number the answers correctly**
- 3. Read the questions correctly and the points allocated.**

QUESTION 1 (10)

- a) Define the following terms and phrases used in Housing and Health
 - i. Housing and Health (2)
 - ii. Premises (2)
 - iii. Substandard housing (2)
 - iv. Artificial ventilation (2)
 - v. Illumination (2)

QUESTION 2 (20)

- (a) Highlight 4 Fundamental psychologic Needs in Housing (5)
- (b) Mention 3 types of Windows used for natural ventilation (3)
- (c) Mention 6 Basic Principles of Healthful Housing (6)
- (d) List 3 indicators in housing to assess the quality of life (3)
- (e) Give a brief explanation of convectional currents on ventilation (3)

QUESTION 3 (20)

- (a) The role of flies in vector transmission of specific pathogens in housing is sometimes debated. However, one disease where there is good available evidence of flies-human transmission is typhoid fever carried by *Salmonella typhi*, mention the other 3 species that can be carried by flies and the disease each causes (6)
- (b) Mention and explain 4 management strategies for controlling cockroaches in housing (8)
- (c) Discuss any 3 of the social determinants of health in poor housing (6)

QUESTION 4 (20)

The Government of Lesotho (GoL) has long recognized the growing challenge the country is facing as a result of the broadening gap between housing supply and demand; and the need for a housing policy to comprehensively address the challenge. The National Housing Policy for Lesotho of 2018 is structured in four sections.

- a) Mention 2 responsible institutions for allocation of land use for Housing construction (2)
- b) Elaborate on the **goal** and **vision** of the National Housing Policy (4)

- c) Mention 6 objectives of the National Housing Policy 2018 of Lesotho (6)
- d) Mention and explain 4 key challenges faced by Lesotho Housing sector (8)

QUESTION 5 (30)

- a) Moisture in a housing has often been associated with been leading factor of growth of most of Microorganism in housing including mould. In a table form Mention reasons for moisture occurrence, its effects and preventative strategy in housing (9)

Reasons for Moisture Occurrence	Moisture Effects	Moisture Prevention strategies

- b) Briefly mention 5 criteria to consider while selecting suitable site for Commercial zoning (5)
- c) Name and explain 2 types of structural failure in Building construction (4)

- c) Discuss structural failure in building construction (6)

- d) Proper housing conditions are essential for day to day living to continue without obstruct in Housing. In a table format please highlight each 2 of the foundation’s problems, concrete problems, and roofing problems (6)

foundations problems	concrete problems	Roofing problems

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