

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

**DIPLOMA IN ENVIRONMENTAL HEALTH
SCIENCES**
MAIN EXAMINATION PAPER MAY 2009

TITLE OF PAPER : HOUSING AND HEALTH

COURSE CODE : EHS 304

DURATION : 2 HOURS

MARKS : 100

INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS

: EACH QUESTION CARRIES 25 MARKS

: NO PAPER SHOULD BE BROUGHT
INTONOR OUT OF THE EXAMINATION
ROOM

: BEGIN EACH QUESTION ON A
SEPARATE SHEET OF PAPER

**DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS
GRANTED BY THE INVIGILATOR**

QUESTION ONE

- (a) Outline the linkages between housing and HIV/AIDS considering existing and potential responses to HIV/AIDS from the perspective of human settlements in Swaziland [15]
- (b) In terms of the Public Health Act No 5 of 1969 and generally what would render a house unfit for human habitation? [10]

QUESTION TWO

- A) Housing Layout Design often differs from locality to locality to reflect certain requirements. Account for this difference giving at list five reasons for this. [10]
- B) Discuss the advantages and disadvantages of semi detached houses. [10]
- C) Define the word 'housing layout'. What purpose does housing lay out serve in a human settlement? [5]

QUESTION THREE

- A) List five factors affecting natural lighting [5]
- B) Evaluate lighting for the Lecture Hall in Mbabane Campus presenting the following: 18 fluorescent lamps of which 6 are not functioning, 2 are flickering and 4 uncovered. The illuminance readings are as follows;

	Natural lighting	Artificial lighting
Maximum	283lx	459lx
Minimum	264lx	450lx
Average	270lx	453lx

[15]

- C) Give reasons why indoor air pollution is a more serious environmental problem [5]

QUESTION FOUR

- A) Describe briefly the usual four broad categories in city's housing submarket [5]
- B) Why is it important to distribute light evenly and what factors affect the distribution of light in a building [10]
- C) What are the three qualities of artificial light? [5]
- D) What are the two temporary methods of controlling glare [5]

QUESTION FIVE

- A) Discus the concept environment and indicate how is housing located within this broader concept. [5]
- B) List seven attributes that you would find in a good house. [7]

- C) One of the basic principles of healthful housing is protection against contagion. Discuss this principle in details [9]
- D) Outline four technical considerations in housing [4]
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