

UNIVERSITY OF SWAZILAND
Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH SCIENCES

FINAL EXAMINATION PAPER 2007

TITLE OF PAPER : HOUSING AND HEALTH

COURSE CODE : EHS 304

DURATION : 3 HOURS

MARKS : 100

INSTRUCTIONS : ANSWER ANY FIVE QUESTIONS

: EACH QUESTION CARRIES 20 MARKS

**: NO PAPER SHOULD BE BROUGHT INTO
NOR 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

[20 MARKS]

- A) In any project, particularly a housing project, there is often reference to three critical constraints. What are they? Discuss them and indicate how each may enhance the progress of a project. [10]
- B) The term '*housing*' has a broader meaning than the word 'house'. Discuss what you understand by the term 'housing' [10]

QUESTION TWO

[20 MARKS]

- (A) In housing project three quality issues matter to an EHO. Name them and outline the role of an EHO in each issue. [10]
- (B) List seven costs related to a housing project. For each give an example. [7]
- (C) Define the following terms commonly used in project management i) Project Management ii) Event iii) Man Hours [3]

QUESTION THREE

[20 MARKS]

- A) What are the desired atmospheric conditions in an ordinary work room? [5]
- B) List the main means of ventilation that may be applied in an ordinary house [5]
- C) Describe the four mechanical ventilation systems in common use [10]

QUESTION FOUR

[20 MARKS]

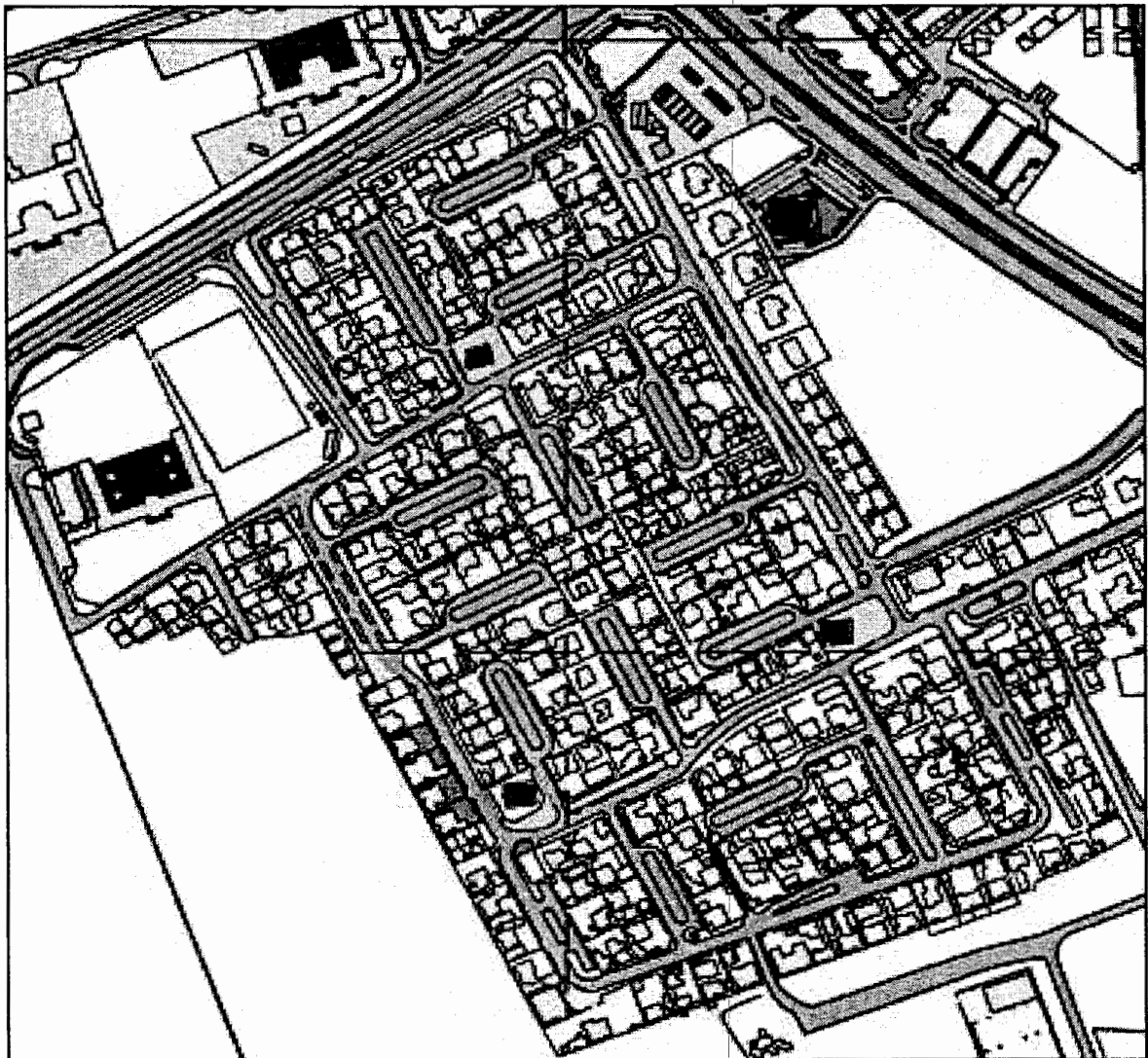
- A) Mention three principles underpinning Urban Management Development for any successful city [5]
- B) Give five arguments why development of a city is important. [10]
- (C) Define the word 'housing layout' and describe the two common types of housing layouts stating in each case what influences the choice of each system. What purpose does housing lay out serve in a human settlement? [5]

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QUESTION FIVE

[20 MARKS]

- A) Housing Layout Design often differs from locality to locality to reflect certain requirements. Account for this difference giving at least five reasons for this. [10]
B) Discuss the advantages and disadvantages of semi detached houses. [5]
C) In the human settlement layout plan below how many cul-de-sacs can you identify? Name the other roads that are in this plan. What purpose does a cul-de-sac serve? [5]

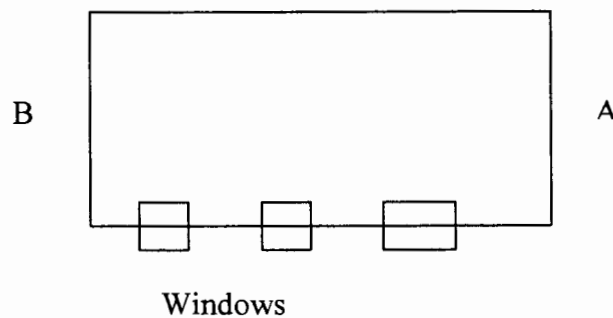


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QUESTION SIX

[20 MARKS]

- A) List five factors affecting natural lighting [5]
B) Discuss the disadvantages of artificial lighting [2]
C) Consider the following as a classroom.
1. Would you position the writing board at A or B. Give reasons. [5]
2. What is the required illumination for an ordinary classroom [3]
3. Define “sky factor” and represent it graphically [5]



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