

**UNIVERSITY OF SWAZILAND
FACULTY OF HEALTH SCIENCES
DIPLOMA IN ENVIRONMENTAL HEALTH
FINAL EXAMINATION PAPER 2008-9**

TITTLE OF PAPER: VECTOR AND VERMIN CONTROL

COURSE CODE: EHS 214

DURATION: 2.5 HOURS

MARKS: 100

**INSTRUCTIONS: READ THE QUESTIONS & INSTRUCTIONS
CAREFULLY**

ANSWER ANY FOUR QUESTIONS

EACH QUESTION CARRIES 25 MARKS

WRITE NEATLY & CLEARLY

**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

- a. Give the main common characteristics of the members of the phylum Arthropoda and the classes Insecta and Arachnida. (5 Marks)
- b. Give an account of the life cycles led by each of the following types of insects.
 - i. Oviparous insects (7 Marks)
 - ii. Viviparous insects (5 Marks)
 - iii. Pupiparous insects (5 Marks)
- c. Distinguish among the three (3) types of larvae of the insects that undergo a complete metamorphosis type of development. (3 Marks)

QUESTION TWO

Give an account of the habitats of the following insects. (25 Marks)

- a. Cockroaches
- b. Sucking lice
- c. Mosquitoes
- d. Tsetse flies
- e. House flies

QUESTION THREE

Give an account of the medical importance of the following insects. (25 Marks)

- a. Bed bugs
- b. Fleas
- c. Mosquitoes
- d. House flies
- e. Screw-worm flies

QUESTION FOUR

Recommended methods that could be used to control the occurrence and therefore the medical importance of each of the following insects. (25 Marks)

- a. Cockroaches
- b. House flies
- c. Sucking lice
- d. Mosquitoes
- e. Tsetse flies

QUESTION FIVE

- a. Name two insecticides in current use belonging to each of the following groups of insecticides. (5 Marks)
- i. Non-residual insecticides
 - ii. Residual insecticides
- b. Describe how you would organize, formulate and apply residual insecticides to an urban community infested with mosquitoes. (20 Marks)

QUESTION SIX

Discuss the medical importance and the control of domestic rodents. (25 Marks)