



GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS MAY - AUGUST 2018 SEMESTER

CERTIFICATE IN ENVIRONMENTAL HEALTH

COURSE CODE: CIEH 023

COURSE TITLE: PEST AND VERMIN CONTROL

DATE: 8 AUGUST 2018

TIME: 3.00 PM – 6.00 PM

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: *All exam rooms are under CCTV surveillance during the examination period.*

SECTION A: COMPULSORY

MULTIPLE CHOICE QUESTIONS [1-5]

[ONE MARK EACH]

1. The following belong to class Arachnida except
 - A. Mosquitoes
 - B. Ticks
 - C. Mites
 - D. Spiders

2. Which one of the following is a vector borne disease
 - A. HIV/AIDS
 - B. Leshmaniasis
 - C. Pneumonia
 - D. Hepatitis

3. Which of the following is not an order of class Insecta?
 - A. Diptera
 - B. Crustacean
 - C. Anoplura
 - D. Siphonaptera

4. What consists of a complete metamorphosis?
 - A. Pupa
 - B. Egg
 - C. Larva
 - D. All the above

5. Which of the following pests does not bite
 - A. Snake
 - B. Scorpion

 - C. Housefly

 - D. Mosquito

SECTION A: COMPULSORY

SHORT ANSWER QUESTIONS [ANSWER ALL QUESTIONS IN THIS SECTION]

1. State any five names of pesticides used in our routine life in the community [5 Marks]
2. Outline three types of lice that are of public health importance [3 Marks]
3. List any five methods through which lice can be transferred from an infested to a susceptible host [5 Marks]
4. Outline any five breeding sites for a housefly [5 Marks]
5. Briefly explain any five methods of insects control [5 Marks]
6. Outline two diseases transmitted by the flea [2 Marks]
7. Highlight four ways in which one can reduce contact of flies with food, utensils and people [4 Marks]
8. State any five diseases transmitted by rats and mice [5 Marks]
9. Explain the meaning of complete metamorphosis [1 Mark]

SECTION B

[CHOOSE ANY THREE QUESTIONS]

1.

a) Discuss the lifecycle of a mosquito [12 Marks]

b) Discuss four ways in which one control fleas in the household and surrounding environment [8 Marks]

2.

Discuss the following diseases in terms of causative agent, signs and symptoms , prevention and control

i. Plague [5 Marks]

ii. Yellow fever [5 Marks]

iii. Leshmaniasis [5 Marks]

iv. Malaria [5 Marks]

3.

a) Discuss five measures to reduce man- mosquito contact [10 Marks]

b) Discuss five advantages of Integrated Pest Management [10 Marks]

4.

a) Using examples, discuss the public health importance of pests [15 Marks]

b) Describe five factors to consider when choosing the type of pesticide to use [5 Marks]