

**NATIONAL UNIVERSITY OF LESOTHO**

**FACULTY OF AGRICULTURE**

**CROP SCIENCE**

**CPS 3507 PESTICIDE TECHNOLOGY**

**FINAL EXAMINATION**

**JUNE 2023**

**MARKS: 100**

**TIME: 3 HOURS**

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**Instructions:**

- **Answer any four questions.**
- **All questions carry equal marks**

**QUESTION ONE**

[25marks]

Explain the following terms as they apply in pesticide science. Give examples where appropriate.

- A. Active ingredient
- B. Synergists
- C. Surfactant
- D. Low volume spray (LVS)
- E. Ultra low volume sprays (ULVs)

**QUESTION TWO**

[25 marks]

Explain the following as they apply in classification based on mode of penetration and action

- A. Contact insecticides
- B. Systemic insecticides
- C. Fumigants
- D. Physical poisons
- E. Chitin inhibitors

**QUESTION THREE**

[25 marks]

Write notes on Pheromones addressing the following:

- A. Definition or explanation
- B. Uses in pest management
- C. Factors affecting their effectiveness

**QUESTION FOUR**

[25 marks]

Elaborate on the following pesticides formulations. Give one example in each category

- A. Dusts
- B. Granules
- C. Emulsifiable concentrates
- D. Wettable powders

**QUESTION FIVE**

[25 marks]

Elaborate on the following major groups of insecticides. Give two examples of insecticides for each group and explain what insects they control.

- A. Organophosphates
- B. Carbamates
- C. Pyrethroids

