



GRE TSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS SEPTEMBER – DECEMBER 2021 SEMESTER

DIPLOMA IN PUBLIC HEALTH

COURSE CODE: DIPH 025

COURSE TITLE: ENTOMOLOGY AND HEALTH

DATE: 17 NOVEMBER 2021

TIME: 8.00 AM – 11.00 AM

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]

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1. IPM is also known as?
 - A. IPC.
 - B. IDM.
 - C. IPA.
 - D. IIM.

 2. Pest population estimates are of..?
 - A. 3 types.
 - B. 2 type.
 - C. 4 types.
 - D. 5 types.

 3. An abnormal proliferation of plant cells resulting from outside stimulus (Insect, a fungal growth, a mite) is called?
 - A. Gall
 - B. Boring
 - C. Malformation
 - D. Malnutrition
- The order Hemiptera contains:
- A. Bed bugs and stink bugs
 - B. Chewing and sucking lice
 - C. Roaches and mantids
 - D. Crickets and grasshoppers
4. Insects in which the young ones pass through complex or indirect metamorphosis are said to be _____?
 - A. Hypermetamorphosis
 - B. Holometabola
 - C. Ametabola
 - D. Hemimetabola

SHORT ANSWER QUESTIONS: (ANSWER ALL QUESTIONS IN THIS SECTION)

1. Highlight any five habitats of arthropod [5 Marks]
2. State any five common identification characteristics of Arthropods [5 Marks]
3. Outline any five methods of control of insects [5 Marks]
4. List any five parts of an insect leg. [5 Marks]
5. Outline the main parts of a typical mouthpart of an insect parts. [5 Marks]
6. Highlight any five functions of antennae [5 Marks]
7. State any five methods of insect collection [5 Marks]

SECTION B

[CHOOSE ANY THREE QUESTIONS]

QUESTION ONE

- a) Describe the economic classification/importance of insects [10 Marks]
- b) Briefly describe any 5 reasons for insect dominance [10 Marks]

QUESTION TWO

- a) Discuss the anatomy of insect integument [10 Marks]
- b) Explain any five functions of insect integument [10 Marks]

QUESTION THREE

- a) Describe the body segmentation of insect [10 Marks]
- b) Discuss any five types of reproduction among insects [10 Marks]

QUESTION FOUR

- a) Explain the meaning of metamorphosis [2 Marks]
- b) Discuss five types of metamorphosis [10 Marks]
- c) Explain any four significance of metamorphosis [8 Marks]