

## RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES

## B.Sc. in Applied Sciences Second year – Semester II Examination – September/ October 2020

## **ZOO 2202 – GENERAL ENTOMOLOGY**

Tim	ie: T	wo	(02)	hours

Answer <u>FOUR (04)</u> questions including question Number 01. Illustrate your answers with suitable diagrams when appropriate.

- 1. Explain, giving suitable example, the structural adaptations of mouthparts of insects for different feeding habits. (100 marks)
- 2. a) Explain briefly the term "sensory receptor".

(15 marks)

b) Give an account on the photoreceptive structures found in insects.

(85 marks)

- "Studies suggest that 40% of insect species are in decline. If this trend continues, entire ecosystem will collapse in near future, especially due to starvation." Citing suitable examples critically discuss this statement.
- 4. a) Explain briefly the process of metamorphosis briefly.

(20 marks)

b) Describe using examples, four (04) types of metamorphosis found in class insect.

(80 Marks)

5.	Write short notes of the following:	e short notes of the following:		
	a) Respiratory system of a typical insects	(25 marks)		
	b) Structure of insect integument	(25 marks)		
	c) Insect Antennae	(25 marks)		
	d) Different types of pupal stages of insects	(25 marks)		