



UNIVERSITY OF SWAZILAND

RESIT EXAMINATION PAPER

PROGRAM

BACHELOR OF SCIENCE IN AGRONOMY YEAR 1

COURSE CODE: CPR101

TITLE OF PAPER: INTRODUCTORY TO AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL QUESTIONS

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CHIEF INVIGILATOR

Question 1 (25 Marks)

Write the letter from Column B that contains a word/phrase that best describes the types of Antenna, leg, Wing or Mouth part indicated in Column A

Column A

1. Setaceous
2. Moniliform
3. Serrate
4. Filiform
5. Clavate
6. Capitate
7. Plumose
8. Aristate
9. Genuiculate
10. Pectinate
11. Stylate
12. Saltatorial
13. Raptorial
14. Natatorial
15. Fossorial
16. Cursorial
17. Ambulatorial
18. Tegmina
19. Elytra
20. Halter
21. Hemelytra
22. Siphoning
23. Piercing and sucking
24. Chewing and lapping
25. Sponging

Column B

- A. Featherlike
- B. Elbowed
- C. With an arista
- D. With many plumes
- E. With a distinct head
- F. Tapering Club-like
- G. Thread-like
- H. Saw-toothed
- I. String of Beads
- J. Bristle-like
- K. With style like process
- L. Mandible, maxillae and labium modified to a piercing needle
- M. With mandibles modified for chewing
- N. Labium forming proboscis
- O. Modified maxillae forming a coiled proboscis
- P. Leathery protective forewing
- Q. A forewing hardened to form horny sheath for protection
- R. Hind wing modified to a balancing organ
- S. Partly hardened and partly membranous forewing
- T. Running legs
- U. Digging leg
- V. Swimming leg
- W. Grasping leg
- X. Jumping leg
- Y. Walking Leg

Question 2 (25 Marks)

Copy this table into your answer sheet and complete it by filling in the blank cells (each cell carry 1 Mark)

GROUP	Common name	No of Tagmata	No of Antennae	No of Legs	No of Wings
Diplopoda					
Chilopoda					
Arachnida					
Crustacea					
Insecta					

Question 3 (25 Marks)

Draw the immature and adult stages of a butterfly and a grasshopper and show the similarities and differences in their life cycle

Question 4 (25 Marks)

- a) Describe the following and explain their role in insect survival (9 Marks)
- Pheromones
 - Allemones
 - Kiaromone
- b) Name six types of pheromones produced by insects (6 Marks)
- c) Discuss the function of any five of the pheromones you mentioned in Q5 (a) above (10 Marks)