

**Eastern University, Sri Lanka**  
**Faculty of Science**  
**Final Examination in Science 2006**  
BT 402-Insect Plant Relationship

Answer All Questions

Time Allowed: Three Hours

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1. With suitable examples, describe the different methods adopted by insects to find and recognize their host plants.
2. "The domestication of wild plants for cultivation influences the attack by herbivores" Critically assess this statement.
3. Write notes on the following:
  - a) Toxins in solanaceous plants
  - b) Hormone analogues in plants
4. Write notes on the following:
  - a. Factors influencing species diversity of insects on crop plants.
  - b. Genetic feedback mechanism in insect plant relations.
5. Discuss the findings of the studies made by Schonoven and his team with reference to chemical communication between plants and insects
6. Describe the different types of resistance mechanisms shown by plants towards herbivorous insects.

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