UGANDA MARTYRS UNIVERSITY

FACULTY OF AGRICULTURE

BACHELOR OF AGRICULTURE

ENT 2101: INTRODUCTION TO ENTOMOLOGY EXAMINATION

Special and Supplementary Examination September 2015

- **Answer only four questions**

1. Define the following terms — 25 marks
   - i) Insect ecology — 1 mark
   - ii) Tegmina — 2 marks
   - iii) Deutonymph — 2 marks
   - iv) Protonymph — 2 marks
   - v) Passive migration — 2 marks
   - vi) Physogastry — 2 marks
   - vii) Off season pest — 2 marks
   - viii) Oligophagous pest — 2 marks
   - ix) Subimago — 2 marks
   - x) Naiad — 2 marks
   - xi) Scutellum — 2 marks
   - xii) Saltatorial legs — 2 marks
   - xiii) Hexapoda — 2 marks
2. Describe the life cycle, nature of damage and control of the sweet potato weevil — 25 marks
3. a) Define the term ecdysis and outline its significance in insects — 5 marks
   b) With suitable examples, describe the different types of larvae and pupae — 20 marks
4. Describe the characteristics of the following insect orders — 25 marks
   a) Odonata
   b) Ephemeroptera
   c) Dictyoptera
   d) Thysanoptera
   e) Isoptera
5. Using graphical representations, discuss the economic injury level and action threshold concepts — 25 marks
6. Discuss the different defensive mechanisms employed by insects as an adaptation to their environment — 25 marks
7. a) Illustrate the different parts of the insect leg — 7 marks
   b) Describe the different types of modifications of the insect legs to suit different environments and lifestyles — 18 marks
8. Describe the lifecycle, nature of damage and control of a selected storage pest — 25 marks