

Syllabus of Examination for Proficiency in Apiculture: Senior Examination Microscopy

Microscopy Dissection and Pollen Analysis

Candidates will be required to discuss and demonstrate:

The construction, components and setting up of:

- A stereo dissecting microscope
- A compound microscope
- The calibration of an eyepiece graticule. The candidate must be able to measure a microscopic object.
- The examination of a sample of bees for Acarine (Acarapis Woodii)
- The process of making slides for:
 - Pollen analysis
 - The detection of:
 - Nosema and Amoeba
 - Foul brood bacterial diseases (AFB and EFB)
- The discussion will include the reason why a particular magnification is required for each examination.
- The significance of what is apparent under the microscope.
- The statistical significance of the sample size, and the significance of confidence limits.
- Discuss the relevant licensed treatments for all the diseases examined.
- The preparation of honey bee parts for microscopical examination.
- The appearance and signs of Parasitic Mite Syndrome in a brood frame.
- The appearance and signs of all brood disorders.