

## **BBKA Correspondence Course MODULE 3 Honey Bee Pests, Diseases and Poisoning Paper One**

**Accurately spelt binomial (scientific) names of all relevant causative organisms are expected.**

**Study parts 3.1 to 3.5 of the syllabus and answer the following questions.**

1. Using a chart compare and contrast the signs of American foul brood (AFB) and European foul brood (EFB). Use the binomial names and include the life stage of the affected bee.
2.
  - a) Describe the life cycle of the causative organisms for AFB and EFB.
  - b) Explain how each organism develops within the larvae and within the colony
  - c) How might these diseases spread from colony to colony?
3. If EFB is present in a colony why is it more likely to be found in early spring? Why are the signs more likely to have disappeared in summer? (Make reference to the standard graph showing the fluctuation in colony numbers throughout the year.)
  - a) Give an account of how AFB can be confirmed in a colony using a lateral flow device.
  - b) Give a detailed description of how the colony and equipment would be dealt with by a Bee Inspector once AFB is confirmed.
4. How could a colony (and equipment) with confirmed but mild EFB be dealt with by
  - a) A Bee Inspector in June?
  - b) How would the treatment differ if the disease was confirmed at the end of August?
  - c) How would the colony be dealt with if the EFB was severe?