

Section 1 Part B Questions

Submit your answers to these questions with the section C answers, as one word document. Please use the full question title as below.

Section 1 Part B Question 1

- How does infection with *Melissococcus plutonius* affect an individual larva? (10)
- Describe the appearance of the affected larva (3)
- Give a time scale for the progression of the disease? (2)

Section 1 Part B Question 2

- Give a description of the way European foulbrood affects a colony.(6)
- Describe the visual signs on the comb. (5)
- When might EFB be more noticeable and why? (4)

Section 1 Part B Question 3

- Describe how AFB and EFB may be spread between colonies
 - i) By the beekeeper and beekeeping equipment (6)
 - ii) By bees (3)
- How would all equipment and Personal Protective Equipment be treated following an outbreak of EFB? (6)

Section 1 Part B Question 4

- How often is it advisable to carry out a disease inspection for foulbrood? (1)
- Describe how to do an inspection for brood diseases. (4)
- Describe an integrated pest management system to minimize the risk of brood diseases. (8)
- Why is AFB more difficult to eradicate than EFB? (2)

Section 1 Part B Question 5

- Explain how American foul brood develops in a larva. Include timescales in the answer. (7)
- Describe what you would see on the comb. (4)
- How does AFB affect the colony as a whole? (4)

Section 1 Part C Questions

Submit your Part C answers with your Part B answers as a single 'Word' document ensuring you use the full question title as below.

Section 1 Part C Question 1

- American foul brood is suspected during an inspection. What signs would lead to this conclusion? (6)
- Describe the matchstick test. (1)
- What steps should be taken as soon as AFB is suspected? (4)
- How will the bee inspector will deal with the suspected outbreak. (9)
- Explain how the bee inspector would use a lateral flow test. (6)
- What is the correct way to examine a brood frame for the scales of AFB (1)
- Why is it very important to register colonies with Beebase? (2)
- What are the statutory rights of a bee inspector? (1)

Section 1 Part C Question 2

- European foul brood is suspected during an inspection in early spring during the first nectar flow. What visual signs might lead to this conclusion? (9)
- Why are signs of EFB more visible at this time of year? (4)
- What steps should be taken as soon as EFB is suspected? (6)

- Describe how the bee inspector would deal with a mild outbreak? (7)
- How would treatment differ if the case was severe? (2)
- How would it differ if mild EFB was found in Autumn? (2)