

THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE MODULE 1 HONEY BEE MANAGEMENT

9th November 2019 Time Allowed 1½ hours

Candidate Number:

Instructions to Candidates

Read the questions carefully. Answer All Sections. It is recommended not to spend more than 10 minutes on Section A, 50 minutes on Section B and 30 minutes on Section C.

Unless stated otherwise questions apply to honey bees.

Use **BLACK** pen for text. **Black** pencil may only be used for diagrams. **DO NOT USE COLOURS.**

Examiner Use Only

Question	Sec A	B11	B12	B13	B14	B15	C16	C17	Total
Mark									
Moderated									

SECTION A (10 marks, 1 for each question)

Answer **ALL** the questions in this section. Use one or two word or short phrase answers. Please write your answers on the question paper.

- Q1 Give a test for queenlessness.
- Q2 What aspect of frames do the names "Manley" and "Hoffman" refer to?
- Q3 Name two materials collected by bees other than pollen and nectar.
- Q4 What is "silent robbing"?
- Q5 Complete the sentence
" A colony of honey bees should be moved less than or more than"
- Q6 Name an avian pest of honey bees.
- Q7 For what purpose can thin, unwired foundation used?
- Q8 Why are drones not normally present in a colony during late Autumn and Winter?
- Q9 What is "swarm prevention".
- Q10 Name one crop in the UK which requires specialist colony management to acquire a honey harvest.

PLEASE HAND IN THIS SHEET AT THE END OF THE EXAMINATION

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SECTION B (60 marks, 15 for each question)

Answer any **FOUR** questions from this section. **Write short notes for your answers.**

Marks

- Q11 A colony in an urban garden is displaying consistent bad temper.
- (a) Give examples of “bad-temper” in honey bees. 3
 - (b) List six conditions/situations that can cause episodes of poor temperament. 6
 - (c) List six different ways the problem could be addressed. 6
- Q12
- (a) What is meant by “drifting” between colonies? 1
 - (b) Give six examples of how drifting can occur. 6
 - (c) How can drifting (or bleeding) be used to good effect? 3
 - (d) What are the potential negative effects of drifting? 5
- Q13
- (a) List good practice guidelines that should be followed when buying or selling a nucleus of honey bees. Base your answer on a five frame National nucleus hive. 10
 - (b) Give five uses for a nucleus of honey bees. 5
- Q14 Someone with no experience wants to start beekeeping using a Top Bar Hive.
- (a) List the advantages and disadvantages to illustrate some of the issues involved. 12
 - (b) What other advice would the person benefit from? 3
- Q15
- (a) List five reasons for feeding bees with sugar syrup. 5
 - (b) What are the concentrations of sugar in weak & strong sugar syrup? 3
 - (c) How can robbing be minimised when feeding syrup? 2
 - (d) List the ingredients in a pollen substitute. 4
 - (e) Give one example when a pollen supplement or substitute might be necessary. 1

SECTION C (30 marks)

Answer **ONE** question from this section. Give *labelled* diagrams where applicable.

- Q16 A local association gets repeated requests from beginners regarding what equipment they need to buy to start beekeeping. Produce an advice leaflet which can be given to beginners which provides this information, including reasons for choices. Use the following headings:
- (a) Personal Equipment; 9
 - (b) Hive Equipment; 3
 - (c) Basic Starter Kit for first season. 18
- Q17
- (a) List ten key principles of apiary hygiene. 10
 - (b) How regularly should brood comb be changed, and why? 2
 - (c) Describe how to carry out a “shook swarm” including the best time of year to do this. 16
 - (d) Describe a simple method of comb replacement when only a few frames need to be removed. 2