

THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE MODULE 1 HONEY BEE MANAGEMENT

23rd March 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 What is an extreme reaction to a bee sting called?
- Q2 What is the size of a bee space?
- Q3 Name one substance that worker bees collect and bring back to the hive.
- Q4 Name one type of hive that has short lugs on the brood frames.
- Q5 Name two types of commercially available feeder that can be used for autumn feeding.
- Q6 Give one method by which drifting can be minimised.
- Q7 What will the international colour code be for a queen hatched in 2020?.....
- Q8 Name one type of queen excluder.
- Q9 What weight of stores (in Kg) does a strong colony require to over winter?
- Q10 Other than removing a queen to a nucleus box, name one method of swarm control.

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) Other than for sale list ten uses of a nucleus. 10
(b) What are the recommended contents of each of the five frames of a nucleus for sale? 5
- Q12 (a) List the differences and similarities between a colony containing laying workers and a colony with a drone laying queen. 10
(b) List the signs of queenlessness. 3
(c) Describe the process by which queenlessness can be confirmed. 2
- Q13 A prime swarm of bees has settled on a tree branch 2m above the ground at the edge of a public playing field. Outline:
(a) the equipment needed and 5
(b) the process by which the swarm will be safely collected, 10
Assume the queen is caught at the first attempt.
- Q14 (a) List the signs of a colony being robbed by honey bees. 7
(b) List ways in which robbing can be prevented. 8
- Q15 (a) Briefly describe the preparation of a colony to take advantage of autumn sown oilseed rape (OSR). Include approximate dates when activities would take place. 12
(b) What are the problems commonly associated with oil seed rape? 3

SECTION C (30 marks)

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

- Q16 (a) Describe how hygiene can be maintained in an apiary. 13
(b) State why this is important. 2
(c) Describe a brood comb change process for a strong colony, with two supers, which retains all the brood. 10
(d) Give five uses for wax foundation. 5
- Q17 A beekeeper has ten strong colonies, with supers, at a home apiary and decides in early June that five must be moved to an out apiary 25 miles away.
(a) List ten selection criteria for a new apiary site and state why each criterion is important. 12
(b) Describe the process involved in moving the hives to the new site, use the headings:
(i) preparation prior to the move; 8
(ii) moving the bees; 8
(iii) arriving at the site. 2