

# THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

## EXAMINATION FOR PROFICIENCY IN APICULTURE MODULE 1 HONEYBEE MANAGEMENT

14<sup>th</sup> November 2015 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 or 30 minutes on Section C.

Unless stated otherwise questions apply to Honeybees.

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.

- Q1 Name a piece of equipment for bulk feeding sugar syrup .....
- Q2 What is the horizontal spacing between frames, centre to centre, when using 11 frame castellated spacing in a super? .....
- Q3 What type of foundation should be used for cut comb production? .....
- Q4 Give one way to reduce the risk of robbing. ....
- Q5 Approximately how many worker cells can be raised on one side of BS brood comb? .....
- Q6 Using the international queen marking system, what will be the colour used to mark queens raised in 2018? .....
- Q7 What is the use of a clearer board? .....
- Q8 Give a reason why bees collect water. ....
- Q9 What is a cast? .....
- Q10 Give one way that honeybees use propolis within the hive. ....

**PLEASE HAND IN THIS SHEET AT THE END OF THE EXAMINATION**

# MODULE 1 HONEYBEE MANAGEMENT

14<sup>th</sup> November 2015

## SECTION B (60 marks, 15 for each question)

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

- |     |     |  |    |
|-----|-----|--|----|
| Q11 | (a) | List criteria you would consider when assessing the suitability of a site as an out apiary.  | 12 |
|     | (b) | What criteria would be considered when designing hive stands for an apiary?  | 3  |
| Q12 | (a) | Explain how to create a nucleus for retaining an established queen for future queen rearing. The nucleus will remain in the same apiary.   | 9  |
|     | (b) | Give 6 other uses for a nucleus colony.  | 6  |
| Q13 |     | A strong colony of bees in a brood box and one super over a queen excluder, situated in a remote rural apiary, belonging to an experienced beekeeper has become vicious and a nuisance. List the steps to be taken by the beekeeper to re-queen this colony. | 15 |
| Q14 | (a) | List the similarities and differences between a colony containing a drone laying queen and one containing laying workers.  | 9  |
|     | (b) | What steps could be taken to remedy a colony with a drone laying queen?  | 6  |
| Q15 | (a) | List five uses of drawn comb to the beekeeper.   | 5  |
|     | (b) | Explain how extra drawn brood comb can be produced for future use  | 6  |
|     | (c) | Under what circumstances would colonies be unable to draw foundation?  | 4  |

## SECTION C (30 marks)

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

- |     |     |  |    |
|-----|-----|--|----|
| Q16 |     | List the steps, with a rough time schedule:  |    |
|     | (a) | to prepare a colony to be taken to the heather moors;  | 15 |
|     | (b) | to transport 4 colonies of bees inside a vehicle to the heather moors 50 miles away.   | 15 |
| Q17 |     | Charged open queen cells are found during the inspection of a brood chamber in late May. To prevent the colony from swarming the beekeeper wishes to apply the artificial swarm method of control but cannot find the queen. Describe how the beekeeper should proceed with this manipulation and maintain the foraging force for the start of the target flow at the beginning of July. Your answer should include reasons for the actions taken. | 30 |