

THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE MODULE 8 HONEYBEE MANAGEMENT, HEALTH AND HISTORY

8th November 2014 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

Please write your answers to Section A on the question paper.

- Q1 Name one ingredient used in pollen substitute that provides protein.
- Q2 Which exocrine gland produces the fatty acid component of brood food?
- Q3 What was the title of the book written by Rev L Langstroth?
- Q4 Which household product can be used to clean hive tools?
- Q5 Name one of the beekeepers credited with founding the BBKA.
- Q6 What is the Relative Density of beeswax?
- Q7 Name one species of solitary wasp found in Britain.
- Q8 Name a honey which has a naturally low density.
- Q9 What is the approximate half life of Diastase in honey stored at 20^oC?
- Q10 At what temperature does propolis become brittle?

PLEASE HAND IN THIS SHEET AT THE END OF THE EXAMINATION

MODULE 8 HONEYBEE MANAGEMENT AND HISTORY

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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 List the steps:
- (a) how a beekeeper could use wax from honey cappings to make small quantities of foundation; 8
 - (b) how to wire a brood frame and fit unwired foundation. 7
- Q12 (a) List the steps to be taken to make up an observation hive for a 3 day agricultural show where the observation hive will be located under cover in the beekeepers' marquee. 12
- (b) Give three factors to ensure public safety at the show. 3
- Q13 Name **three** beekeepers who are widely credited with the development of swarm control methods. Outline the key features of a method from each of these beekeepers. 15
- Q14 (a) Starting with a sample of honey, list the steps involved in the preparation of a microscope slide for pollen analysis. 10
- (b) How could this slide be used to determine the floral source of the honey? 5
- Q15 (a) Name three non viral diseases with can affect adult honeybees. 3
- (b) How do two of these diseases impact on colony health and its seasonal management? 12

SECTION C (30 marks)

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

- Q16 Describe how colonies should be managed for the production of cut comb honey from a summer flow. Use the following headings: suitable crops, selection of colonies, colony preparation, site selection, colony management, crop removal, and the preparation and presentation of the crop for sale. 30
- Q17 Starting with a 30lb bucket of coarsely granulated honey, describe how to prepare jars of soft set honey ready for sale. Your answer should cover the whole process from preparing the honey for bottling to labelling, including mention of the main UK legislation that needs to be observed throughout the process. 30