

THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE

MODULE 8 HONEYBEE MANAGEMENT, HEALTH AND HISTORY

19th March 2016

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 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 on the question paper.

- Q1 What is the UK legal maximum for the percentage water content of clover honey?
- Q2 Give one cause for increased HMF in honey.
- Q3 Where is an 'exine' to be found?
- Q4 Name an exocrine gland of a mature queen bee.
- Q5 Name a UK major source of tree pollen in February.
- Q6 What is a Taranov board used for?
- Q7 Quinby and Bingham are associated with which item of bee equipment?
- Q8 Give one bee husbandry reason for using disposable gloves.
- Q9 Who designed the first double walled hive?
- Q10 What is a phoretic varroa mite?

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

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| Q11 | Compare the contribution of W B Carr, R O B Manley, and Julius Hoffman to frame spacing. | 15 |
| Q12 | Behavioural, mechanical, physical and chemical are all methods of clearing bees from supers. Give an example of each with their advantages and disadvantages. | 15 |
| Q13 | (a) List the key points for the management of a colony for the production of comb honey. | 7 |
| | (b) Outline the preparation and presentation of cut-comb honey for retail sale. | 8 |
| Q14 | List the main constituents and physical properties of the following: | |
| | (a) propolis; | 8 |
| | (b) beeswax. | 7 |
| Q15 | (a) Name the hives associated with the work of Thomas Nutt; François Huber; L L Langstroth.. Give ONE special feature of each. | 6 |
| | (b) Explain the differences between the British National hive and the Modified National hive. | 4 |
| | (c) State ONE advantage of the Modified National hive over the original. | 1 |
| | (d) List the contributions to beekeeping made by F R Cheshire. | 4 |

SECTION C (30 marks)

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

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| Q16 | Explain how a colony of bees should be selected, prepared and managed for a bee handling demonstration at a crowded, public event. What aspects of public safety should be considered and how and how are these dealt with? | 30 |
| Q17 | (a) Compare the symptoms of brood affected by EFB, AFB and Parasitic Mite Syndrome (PMS). | 14 |
| | (b) Describe the procedure and limitations of a 'shook swarm' and why this procedure can be helpful in disease control. | 16 |