THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

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

21st March 2015

Time Allowed 1½ hours

	Candidate Number:
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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 on the question paper.

Q1 What is melissopalynology?

Q2 What hive is associated with Simmins?

by the intine of a pollen grain called?

Q5 Nosema is classified as what type of organism?

Q6 What is the specific gravity of honey with 18% water content at 20°c

Q7 At what temperature will molten bees wax solidify?

Q8 Apart from Oil Seed Rape, name a plant with honey that granulates rapidly?

Q9 What area of beekeeping did Dorothy Hodges specialise in?

Q10 What did W.C.Cotton introduce into the UK in 1870?

PLEASE HAND IN THIS SHEET AT THE END OF THE EXAMINATION

MODULE 8 HONEYBEE MANAGEMENT AND HISTORY

21st March 2015

	TION er any	B (60 marks, 15 for each question) FOUR questions from this section. Write short notes for your answers.	Marks						
Q11	(a) (b)	List the contributions made to beekeeping by the following: (i) William Broughton Carr; (ii) Rev. L.L. Langstroth. Name the people attributed to developing each of the following pieces of	3 2						
		beekeeping equipment: (i) queen excluder; (ii) smoker; (iii) frame spacing; (iv) wax foundation; (v) honey extractor.	1 2 3 2 2						
Q12	(a)	Define the following and list their contents: (i) pollen supplement; (ii) pollen substitute.	5 4						
	(b)	Briefly describe how these products are produced, applied to the hive and the reasoning for their application.	6						
Q13	(a) (b)	List the distinctive characteristics of pure ling heather honey. Describe briefly three methods of extracting heather honey, so that the honey can be bottled.	6 9						
Q14		re exocrine glands in the queen, giving the location and one function h gland.	15						
Q15	Name	and describe the life cycle of a social wasp.	15						
	TION er ONE	C (30 marks) Equestion from this section. Give labelled diagrams where applicable.							
Q16	(a) (b)	Describe in detail one method to prepare a slide from a sample of honey in order to determine the pollen content. Give 7 features that can be used to identify the floral source from the slide obtained in the above method.							
	(c) (d)	What other factors could be used to identify the honey? How do pollens from insect and wind pollinated flowers vary?	7 2 6						
Q17	Two colonies are checked in early spring and are found to have nosema; one colony being strong and the other weak.								
	(a) (b)	Describe how the diagnosis of Nosema is carried out. Describe in detail the methods applied to manage the colonies to rectify the situation, the aim being to save both colonies.	10 20						