THE BRITISH BEEKEEPERS' ASSOCIATION Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE

MODULE 2 HONEYBEE PRODUCTS AND FORAGE

22nd March 2014 Time Allowed 1¹/₂ 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									

(10 marks, 1 for each question) SECTION A

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	Give a use for royal jelly.
Q2	Name one plant with extra floral nectaries.
Q3	Name one enzyme which is found in honey.
Q4	Honey is hygroscopic. What does this mean?
Q5	Name a constituent of honeydew honey that distinguishes it from floral honey.
Q6	What is the optimum temperature to promote honey granulation?
Q7	Name one permitted use for "Baker's Honey".
Q8	Name one plant that produces honey which granulates rapidly.
Q9	Give the specific gravity of honey at 20°C.
Q10	Above what temperature does wax start to discolour?

PLEASE HAND IN THIS SHEET AT THE END OF THE EXAMINATION

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	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) (c) (d)	Define pollination and fertilisation. What is meant by cross-pollination? Why does nature favour cross pollination? Outline the methods used by plants to favour cross-pollination.	4 2 7
Q12	(a)	How does honey granulate?	4
	(b)	Distinguish between naturally granulated, soft set and seeded types of honey.	6
	(c)	Describe briefly the preparation of seeded honey.	5
Q13	(a)	What conditions must be present in order for honey to ferment?	3
	(b)	Name the end products of fermentation of honey.	2
	(c)	How can the storage conditions of honey help prevent fermentation?	5
	(d)	List the noticeable characteristics of fermented honey.	5
Q14	(a)	List the legal requirements for labelling 454g jars of floral honey sold through a retail outlet in the UK.	10
	(b)	Name 5 of the legal requirements to which honey must conform.	5
Q15	Startir for sho	ng with clean beeswax, list the steps for the production of three beeswax candles ow.	15

SECTION C (30 marks) Answer **ONE** question from this section. Give *labelled* diagrams where applicable.

Q16	(a) (b)	Give a detailed account of how bees collect nectar, convert it into honey and store it. List the constituents in an average sample of UK floral honey. The typical percentage of each should be given.	22 8
Q17	(a)	Explain the main differences between a tangential and a radial extractor and state the advantages and disadvantages of each.	12
	(b)	Other than by spinning describe one method of extracting ling honey.	6
	(c)	Describe the production of clear honey from granulated honey stored in 10 litre (28lb) buckets, in such a way as to ensure that the honey which is bottled will be clear and remain liquid for a period of 3 to 6 months.	12