THE BRITISH BEEKEEPERS' ASSOCIATION

Founded in 1874

Registered Charity No. 212025

EXAMINATION FOR PROFICIENCY IN APICULTURE

MODULE 2 HONEYBEE PRODUCTS AND FORAGE

14th 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. Please write your answers on the question paper.

Q1	Give one use to which pollen may be put by humans.
Q2	How does horse chestnut use colour to communicate information to bees?
Q3	Give the melting point of beeswax.
Q4	What is meant by the term thixotropic?
Q5	What information can the microscopic examination of pollen in honey offer?
Q6	Name one instrument used to measure the moisture content of honey.
Q7	Name one way to remove cappings from combs, prior to extraction?
Q8	Name one plant that produces nectar that is unpalatable to humans?
Q9	What can be measured to indicate ash content in honey?
Q10	Name a piece of equipment that can be used to recover wax from old comb.

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						
Q11	(a) (b)	Give the judging criteria for a beeswax block. Describe the production of a beeswax block from clean, selected, dry cappings.	5 10			
Q12	(a) (b)	Hygiene requirements state that you must make sure that your premises are kept clea List these requirements. List the information which should appear on label of a jar of honey for retail sale	7			
Q13	(a) (b)	 in the UK. Briefly describe the factors affecting nectar secretion in plants. Plants fall into three main categories in terms of Nectar production: plants with nectar containing mostly sucrose; plants with nectar containing a balance of sucrose fructose and glucose; plants with glucose predominant nectar. Give an example of a plant yielding each type of nectar. 	8 9 3			
	(c)	List three factors affecting sugar concentration in nectar.	3			
Q14	(a) (b)	Describe the two main types of small scale centrifugal honey extractor. Discuss the advantages and disadvantages of these two types of centrifugal extractor.	7 8			
Q15	(a) (b) (c)	Give the constituents, expressed in percentage terms, of a typical sample of UK summer floral honey. Identify three enzymes and their actions in a sample of floral honey. What is the allowable limit of hydroxymethylfurfural in floral honey in the UK?	8 6 1			
	TION er ONE	C (30 marks) E question from this section. Give labelled diagrams where applicable.				
Q16	(a) (b)	Give the name and function of the 9 parts of the flower in the diagram provided. Give an account of the processes of pollination and fertilisation,	9			
	(c)	distinguishing between the two. Define and discuss the advantages of self- and cross- pollination, and the mechanisms by which plants promote cross fertilisation.	11 10			
Q17	(a) (b) (c)	Describe, with reasons, how to prepare oil seed rape honey, following extraction, for storage in bulk containers. This honey will be used at a later date for processing and bottling soft set honey. Discuss the storage of this honey, referring to the principles of honey storage. Describe the preparation of clear honey from a 10 litre container of blackberry honey. This honey is intended for retail sale.	7 8 15			

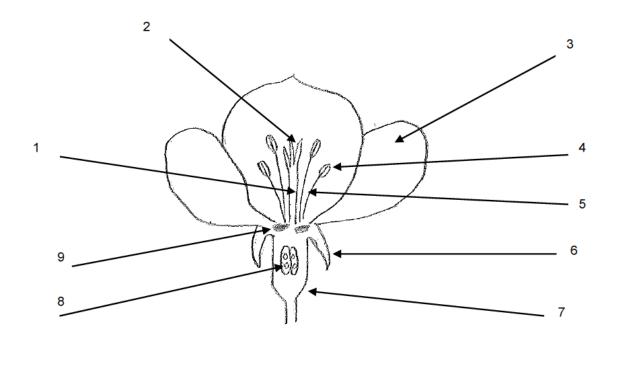
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Q16 (a) Give the name and function of the 9 parts of the flower in the diagram below.



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