THE SCOTTISH BEEKEEPERS' ASSOCIATION

Registered Charity No. SCOO9345

EXAMINATION FOR PROFICIENCY IN APICULTURE

MODULE 2 HONEYBEE PRODUCTS AND FORAGE

19th March 2011

Time Allowed 1½ hours

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. Adhere strictly to the subject matter of the questions. Unless stated otherwise questions apply to Honeybees. Use only **BLACK** pen for text.

Black pencil may only be used for diagrams. DO NOT USE COLOURS.

SECTION A (10 marks, 1 for each question)

Ans	wer ALL the questions in this section. Use one or two word or short phrase answers.
Q1	What is the maximum permitted percentage of water in heather (ling) honey for retail sale in the UK?
Q2	What is the recommended temperature for long term storage of honey?
Q3.	What is the maximum legally permitted level of HMF in floral honey for retail sale in the UK?
Q4	Name the enzyme which bees introduce into nectar to change complex sugars into simple sugars.
Q5	Give one disadvantage of using a tangential honey extractor.
Q6	Which component of ling honey causes the honey to gel?
Q7	What is the melting point of beeswax?
Q8	What is the term used to describe the tendency of honey to absorb water?
Q9	Where are the extra floral nectaries found on a field bean?
010	William all a Ti-O
QIU	What is metheglin?

MODULE 2 HONEYBEE PRODUCTS AND FORAGE

19th March 2011

SECTION B (60 marks, 15 for each question) Answer any FOUR questions from this section. Write short notes for your answers. Mark					
Q11 (a) Complete the labels A to G on the diagram provided.		7			
Q11 (a) Complete the labels A to G on the diagram provided. (b) Describe briefly the role or function of items F and G from	om the above labelled parts.	4			
(c) Outline some of the methods plants favour for cross-polling	ination.	4			
	31 ×				
Q12 (a) List the main features of a solar wax extractor.		5			
(b) What adjustments can be made to this type of extractor		2			
for it to melt wax as quickly as possible? (c) Describe what further process is necessary, to the wax bloom of the control of	ock taken from the solar	7			
extractor, in order to produce 28g (1oz) blocks of wax su	itable for sale.	8			
Q13 (a) What are the signs that a jar of honey is fermenting?		4			
(b) Explain what is happening in the jar.	*	3			
(c) What conditions favour fermentation?		4			
(d) What simple steps can a beekeeper take to avoid this pro	blem?	. 4			
Q14 (a) List, with a short explanation, the statutory labelling requ	girements for a 454g jar of honey	10			
Q14 (a) List, with a short explanation, the statutory labelling required sold through a retail outlet. A sketch may be useful to illustrate the statutory labelling required the statutory labelling required to illustrate the statutory labelling required the statutory labelling required to illustrate the sta	ustrate vour answer.	12			
(b) Other than in the 454g jar, how else can honey be market	ted for sale?	3			
	*	_			
Q15 (a) Describe how cut comb is produced and offered for sale.		8			
Exclude the management of the bees in your answer.	at comb class at a honey show	7			
(b) List the points a judge would consider when judging a cu	it como class at a noncy show.				
	r r				
SECTION C (30 marks)	*				
Answer ONE question from this section. Give labelled di	iagrams where applicable.				
Q16 Advise a beekeeper on taking bees to the heather to obtain t	the maximum amount of honey for	•			
sale in bulk. In your advice use the following headings:		100			
Preparation of colonies in the month prior to the move to the	e moors:	7			
Choice and preparation of site;	,	6			
Preparation for the 60 mile journey and the move;	В.	9			
Removing and extracting the honey and bedding down for t	the winter.	8			
Q17 (a) Describe how to blend a 15kg tub of set oilseed rape hor	ney with a 15kg tub of set honey				
predominantly from blackberries, to produce 30kg of sof	ft set honey in jars.	20			
L					

(b) A beekeeper has a super of honey from oilseed rape which has granulated. Describe how to separate the honey from the wax, including precautions to be taken to avoid

excessive increase in HMF.

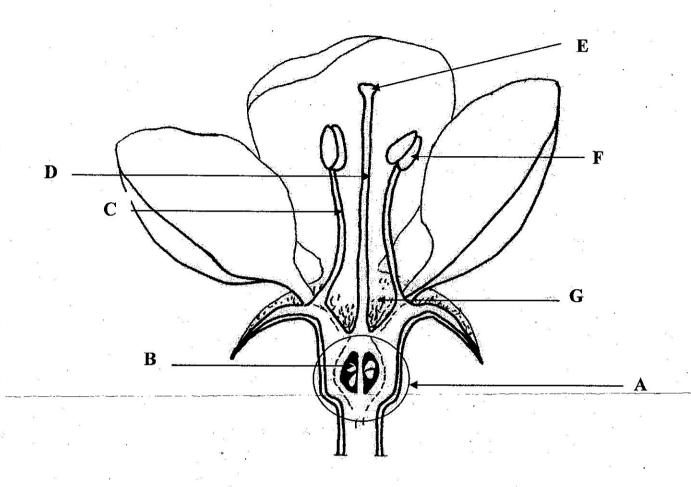
10

MODULE 2 HONEYBEE PRODUCTS and FORAGE

19th March 2011

Q11 (a) Complete the labels A-G for the diagram below.

7



A	***************************************	B	
C			E M
E	a v	F	Ē
C			e s
•	***************************************		