

Question Paper

Module 5: Date: 11 May 2021			Flour			
		2021	Time: 09:30 – 12:00	Duration: 2½ hours		
You	shoul	ld have the	e following for this ex	amination: answer book, pencil, pen and ruler	·.	
			•	ximum marks for each section within a question och new question (1-7) on a new page of the ans		
1.	a)	Describe	the information a w	heat sample's appearance can give you.	(3 marks)	
	b)	Describe	TWO factors that aff	fect protein content in wheat.	(3 marks)	
	c)	Outline t	the key reasons why	flour stream analysis is carried out.	(3 marks)	
	d)		FOUR nutrients requi UK's Bread and Flou	red to be present in bread flours, as stated r Regulations.	(2 marks)	
	e)	State the	e percentage of co-pr	oducts produced at a typical mill.	(1 mark)	
2.	a)	With the	e aid of a sketch, desc	ribe a normal distribution curve.	(2 marks)	
	b)		the relationship bet ss capability.	ween product specification and	(2 marks)	
	c)	Explain v	why benchmarking ar	nd monitoring are carried out in a laboratory.	(3 marks)	
	d)	Describe	the factors that dete	ermine a site testing regime.	(5 marks)	
3.	a)	Define th	he term 'liquefaction	number'.	(2 marks)	
	b)	Explain t proce		age' and its significance in the breadmaking	(6 marks)	
	c)	Describe	the purpose of test I	baking.	(4 marks)	

continued overleaf

4.		Explain how a combination of a Farinograph and Extensograph can be used to analyse the rheological properties of a bread flour.	(12 marks)
5.	a)	State a typical water absorption of:	
		i) Biscuit flour;	(1 mark)
		ii) Bread flour.	(1 mark)
	b)	Describe how a crude fibre test is carried out.	(4 marks)
	c)	Explain the use of soya flour in the baking process.	(2 marks)
	d)	Describe why oxidants may be added to breadmaking flour.	(3 marks)
	e)	State the main oxidising improver used in the UK.	(1 mark)
6.	a)	List the FOUR main stages of breadmaking.	(2 marks)
	b)	Describe fully the baking process of bread.	(8 marks)
	c)	Describe the effects of bran powder in breadmaking flour.	(2 marks)
7.	a)	List the FOUR types of biscuits made in the UK.	(2 marks)
	b)	Describe briefly the TWO main types of pizza produced in the UK.	(2 marks)
	c)	State the typical protein content of a bagel flour.	(1 mark)
	d)	List the TWO chemical ingredients that are added to a soda bread dough.	(2 marks)
	e)	In the form of a table, show a typical puff pastry recipe.	(5 marks)