

Question Paper

Module 5:	Flour	
Date:	Time:	Duration:
10 May 2022	09:30 - 12:00	2½ hours

You should have the following for this examination: answer book, pencil, pen and ruler.

All questions carry equal marks. The maximum marks for each section within a question are shown. Answer **ALL SEVEN** questions, starting each new question (1-7) on a **new** page of the answer book.

1.	a)	List FOUR types of flour produced in the UK that are exempt from meeting nutrient levels as per the 2018 Bread and Flour Regulations.	(2 marks)
	b)	Describe the characteristics of flour produced on head reduction passages.	(3 marks)
	c)	State the percentage of a mill's production that goes into wheatfeed or other co products.	(1 mark)
	d)	Describe what information can be gathered from the analysis of an ash curve and how it can be applied in the milling process.	(6 marks)
2.	a)	Describe how Quality Assurance differs from Quality Control, stating its advantages.	(6 marks)
	b)	Describe what is meant by the term 'protein quality'.	(2 marks)
	c)	Describe a gluten washing test and assessment.	(4 marks)
3.	a)	Describe how a Chopin Alveograph test is carried out.	(6 marks)
	b)	Sketch and label an Alveograph curve, showing measurements, and describe briefly EACH measurement.	(6 marks)

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4.	a)	State TWO reference methods that can be used for the measurement of protein in flour or wheat.	(2 marks)
	b)	Describe what affects the protein content of flour.	(4 marks)
	c)	List the information to be gained from inspection of a wheat sample's appearance at intake.	(4 marks)
	d)	List FOUR impurities that might be found in wheat at intake.	(2 marks)
5.	a)	State a typical resistance and extensibility of a bread flour.	(2 marks)
	b)	Describe what a Hagberg Falling Number test measures, and how the test is carried out.	(4 marks)
	c)	List FOUR causes of internal coarse texture in bread.	(2 marks)
	d)	Explain how 'vital gluten' is used as a breadmaking ingredient.	(4 marks)
6.	a)	List the FOUR main stages of breadmaking.	(2 marks)
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	b)	Describe the no-time process (NTP) for making bread.	(4 marks)
	c)	List TWO breadmaking processes in which the use of fat is essential.	(2 marks)
	d)	Describe TWO forms of yeast used in breadmaking.	(4 marks)
7.	a)	Describe TWO types of household pre-packed flour.	(4 marks)
	b)	Describe the manufacturing process of 'high ratio' cake flour.	(4 marks)
	c)	Describe what is meant by a 'green' or 'under ripe' dough.	(1 mark)
	d)	Describe briefly how puff pastry is made.	(3 marks)