2913/301 PRODUCT DEVELOPMENT, INDUSTRIAL ORGANIZATION AND MANAGEMENT Oct/Nov. 2022

Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN FOOD SCIENCE AND PROCESSING TECHNOLOGY MODULE III

PRODUCT DEVELOPMENT, INDUSTRIAL ORGANIZATION AND MANAGEMENT

3 hours

INSTRUCTIONS TO CANDIDATES

You should have an answer booklet for this examination.

This paper consists of TWO sections; A and B.

Answer ALL the questions in section A and any TWO questions from section B in the answer booklet provided.

Each question in section A carries 15 marks while each question in section B carries 20 marks. Maximum marks for each part of a question are as shown.

Candidates should answer the questions in English.

This paper consists of 3 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A (60 marks)

Answer ALL the questions in this section.

1.	(a)	Define each of the following as used in the food industry:	
		(i) new food product; (i) innovative product.	(2 marks) (2 marks)
	(b)	Differentiate between consumer and customer as applied in product develo	opment. (4 marks)
	(c)	Describe the success factors in product development process.	(7 marks)
2.	(a)	State five sources of external recruitment in a food processing firm.	(5 marks)
	(b)	Explain five merits of internal recruitment sources in a food processing org	ganization. (10 marks)
3.	(a)	State five tangible costs of quality in new food product development.	(5 marks)
	(b)	Explain five criteria used in testing shelf-life of a new product during dever- process.	elopment (10 marks)
4.	(a)	State four steps of controlling process as applied in industrial organization management.	and (4 marks)
	(b)	Distinguish between vertical charts and horizontal charts as applied in org management.	anization (4 marks)
	(c)	State seven non-budgetary control techniques.	(7 marks)

SECTION B (40 marks)

Answer any TWO questions from this section.

5.	(a)	State six factors considered when building a prototype during product development.		
			(6 marks)	
	(b)	Explain seven ways in which government influence new product develope	opment.	
			(14 marks)	
6.	(a)	Explain five advantages of staffing in a food processing company.	(10 marks)	
	(b)	Explain five basic principles of effective directing in an organization.	(10 marks)	
7.	(a)	Define each of the following terms as used in new product development:		
		(i) protocept;	(2 marks)	
		(ii) prototype.	(2 marks)	
	(b)	Outline six steps involved in the scale-up stage during food product development.		
		, com	(6 marks)	
	(c)	Discuss the types of organizational structure applied in food industries.	(10 marks)	
8.	(a)	State five benefits of informal organizing in industrial organization and ma	anagement. (5 marks)	
	(b)	State five principles of sound organizing in a food processing industry.	(5 marks)	
	(c)	Explain five features of formal organizing in a food organization.	(10 marks)	

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