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School code

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Attach your
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Book

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of

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books used

External assessment 2024

Question and response book

Food & Nutrition

Time allowed

- Perusal time — 10 minutes
- Working time — 120 minutes

General instructions

- Answer all questions in this question and response book.
- Write using black or blue pen.
- Planning paper will not be marked.

Section 1 (21 marks)

- 4 short response questions

Section 2 (33 marks)

- 1 extended response question

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Section 1

Instructions

- If you need more space for a response, use the additional pages at the back of this book.
 - On the additional pages, write the question number you are responding to.
 - Cancel any incorrect response by ruling a single diagonal line through your work.
 - Write the page number of your alternative/additional response, i.e. See page ...
 - If you do not do this, your original response will be marked.
 - This section has four questions and is worth 21 marks.
-

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QUESTION 1 (5 marks)

a) Identify three nutrients that are important during pregnancy. Explain your reasoning. *[3 marks]*

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The Nutrient Profiling Scoring Criterion (NPSC) calculation for porridge is shown.

Nutrient Profiling Scoring Criterion (NPSC) calculation		
Porridge		
Category 2		
Baseline points		
Nutrient information	Amount entered	Points earned
Energy	1600	4
Saturated fatty acid	1.8	1
Sugars	2.2	0
Sodium	9	0
Total baseline points		5
Modifying points		Points earned
<i>fvl</i>	Non- <i>fvl</i> ingredients	100%
	Non-concentrated <i>fvl</i> ingredients	0%
	Concentrated fruit and vegetable ingredients	0%
Protein		5
Dietary fibre		5
Total modifying points		10
Final score		-5

b) Use data from the NPSC calculation to justify the suitability of the porridge for the pregnant nutrition consumer market.

[2 marks]

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QUESTION 2 (9 marks)

The formulation for apricot chicken is shown.

Apricot chicken	
Food components 400 g chicken breasts, skin on 3 g garlic salt 3 g pepper 300 g apricot jam 40 mL honey 20 g butter 50 g onion, diced 6 g chicken stock powder	Procedure 1. Melt 10 g of butter in a pan and fry the chicken, skin side down, until golden. Remove from pan. 2. Melt the remaining butter and sauté the onion. 3. Return chicken, skin side up, to pan. 4. Add combined apricot jam, honey, garlic salt and stock powder to the pan, along with 200 mL of water. Simmer for eight minutes. 5. Season with pepper.

A food company is reformulating the apricot chicken to improve its nutritional outcomes with minimal impact on sensory properties.

- a) Identify three alternative food components and/or procedure steps to reformulate the apricot chicken.

[3 marks]

I: _____

II: _____

III: _____

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b) Justify each alternative food component and/or procedure step identified in Question 2a) in relation to improving the nutritional outcomes for apricot chicken with minimal impact on sensory properties. [6 marks]

Alternative food component / procedure step I

Nutritional outcome: _____

Sensory property: _____

Alternative food component / procedure step II

Nutritional outcome: _____

Sensory property: _____

Alternative food component / procedure step III

Nutritional outcome: _____

Sensory property: _____

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QUESTION 3 (4 marks)

The food components and nutrition information for blueberry probiotic yoghurt are shown.

Blueberry probiotic yoghurt			
Food components whole milk skim milk apple concentrate blueberry puree skim milk powder natural flavour live cultures	Nutrition information		
	Servings per package: 5 Serving size: 175 g		
		Average quantity per serving	Average quantity per 100 g
	Energy	487 kJ	278 kJ
	Protein	6.1 g	3.5 g
	Fat, total	4.2 g	2.4 g
	– saturated	2.9 g	1.7 g
	Carbohydrate	13.5 g	7.7 g
	– sugars	13 g	7.4 g
	Dietary fibre	0 g	0 g
Sodium	83 mg	47 mg	
Calcium	192 mg	110 mg	

Identify two food components that could be added to improve the nutritional value of this product for the fitness-focused nutrition consumer market. Justify each additional food component.

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QUESTION 4 (3 marks)

The formulation for pork satay noodles is shown.

Formulation: Pork satay noodles			
Food components 40 g smooth peanut butter 270 mL evaporated skim milk 3 drops coconut essence 10 mL peanut oil 400 g pork fillet, whole 20 mL sweet chilli sauce 20 mL soy sauce 10 mL fish sauce 10 mL lime juice 100 g rice noodles 75 g bok choy 125 g cabbage, shredded 180 g bean sprouts	Nutrition information Servings per package: 4 Serving size: 380 g		
		Average quantity per serving	Average quantity per 100 g
	Energy	1580 kJ	416 kJ
	Protein	44.2 g	11.6 g
	Fat, total	12.0 g	3.2 g
	– saturated	2.6 g	0.7 g
	Carbohydrate	19.9 g	5.2 g
	– sugars	12.9 g	3.4 g
	Fibre	7.6 g	2 g
	Sodium	494 mg	130 mg

Procedure

1. Heat oil in an oven-proof pan. Add pork. Fry until brown, then bake in the oven for 20–30 minutes. Rest the pork and cut into thick slices. Combine sauces, lime juice, peanut butter, coconut essence and evaporated milk. Cook until smooth.
2. Place noodles in a saucepan of boiling water for six minutes. Add bok choy and cabbage. Stand for two minutes. Drain.
3. Serve the noodles, bok choy and cabbage topped with sliced pork fillet and bean sprouts.

Provide three reasons this formulation is suitable for a consumer experiencing coronary heart disease. Support your response with data from the formulation.

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References

Question 1

Food Standards Australia New Zealand (FSANZ), *Nutrient Profiling Scoring Calculator*,
<https://npsc.foodstandards.gov.au/>.



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