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Famil	y nam	ie _						barcode ID label here	
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								Question and response bool	K

## **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.

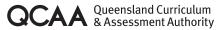
## Section 1 (21 marks)

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

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

Nutrient Profiling Scoring Criterion (NPSC) calculation				
Porridge	;			
Category	y 2			
Baseline	e points			
Nutrient	information	Amount entered	Points earned	
Energy		1600	4	
Saturate	d fatty acid	1.8	1	
Sugars		2.2	0	
Sodium		9	0	
Total ba	seline points		5	
Modifying points Amount entered Points ear				
	Non-fvnl ingredients	100%		
fvnl	Non-concentrated fvnl ingredients	0%	0	
<i>J</i>	Concentrated fruit and vegetable ingredients	0%	Ü	
Protein		12.8	5	
Dietary	fibre	13.2	5	
Total m	odifying points		10	
Final sc	ore		-5	

b)	Use data from the NPSC calculation to justify the suitability of the porridge for the	50 1 3
	pregnant nutrition consumer market.	[2 marks]

## QUESTION 2 (9 marks)

The formulation for apricot chicken is shown.

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

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

Identify three alternative food components and/or procedure steps to reformulate the apricot chicken.	[3 marks]
I:	
II:	
III:	

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:						

## QUESTION 3 (4 marks)

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

Blueber	ry probiotic yoghu	rt	
Food components whole milk skim milk apple concentrate blueberry puree	Nutrition infor Servings per page		ving size: 175 g  Average quantity per 100 g
skim milk powder natural flavour live cultures	Energy Protein Fat, total	487 kJ 6.1 g 4.2 g	278 kJ 3.5 g 2.4 g
	<ul><li>– saturated</li><li>Carbohydrate</li><li>– sugars</li></ul>	2.9 g 13.5 g 13 g	1.7 g 7.7 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.

## **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	Average			
	quantity	quantity			
	per serving	per 100 g			
Energy	1580 kJ	416 kJ			
Protein	44.2 g	11.6 g			
Fat, total	12.0 g	3.2 g			
<ul><li>saturated</li></ul>	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.

apport your response with data from the formulation.					

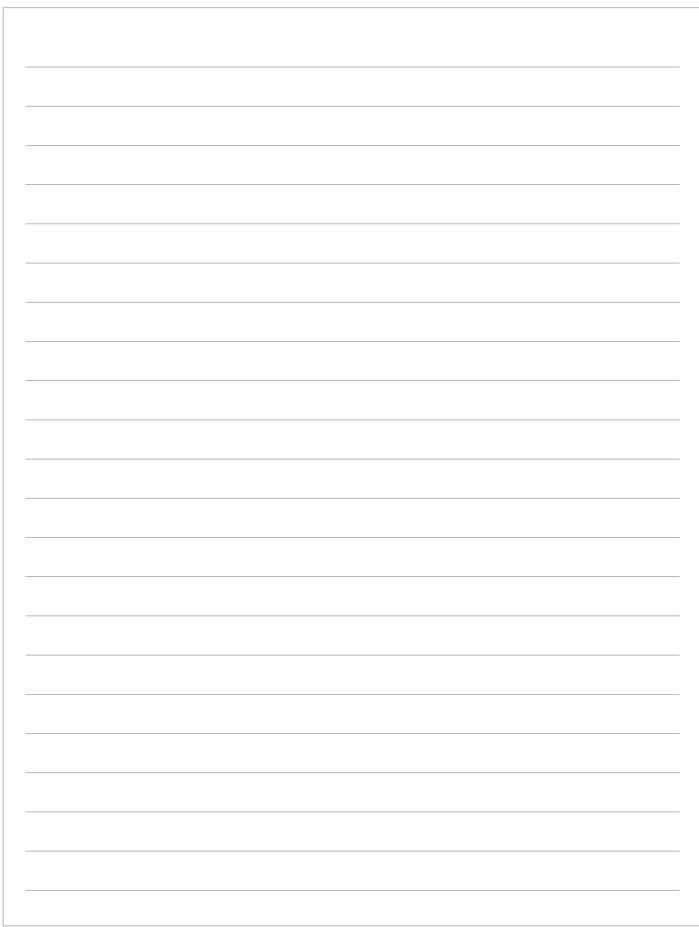
## **Section 2**

## **Instructions**

- Read Stimulus 1 in the stimulus book.
- Respond in paragraphs consisting of full sentences.
- Respond in 400 words or more.
- This section has one question and is worth 33 marks.

## QUESTION 5 (33 marks)











## References

## **Question 1**

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

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