	Number	Candidate Number	
Candidate Name:			

EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

Food and Nutrition

6065/1

Paper 1

Thursday

21 JULY 2016

Additional materials: Answer Booklet

Time: 2 hours

Instructions to candidates

Write your name, centre number and candidate number in the spaces at the top of this page and on all separate Answer Booklets used.

There are seven questions in this paper

Section A

Answer all parts of question 1.

Write your answers in the spaces provided on the question paper.

Section B

Answer any four questions.

Write your answers on the separate Answer Booklet provided.

At the end of the examination:

- fasten any separate Answer Booklet used securely to the question paper, tie with a string in the left corner of the booklets.
- enter the numbers of the Section B questions you have answered on the left side on the grid below, under the column "For Candidate's Use".

Information for candidates

The intended number of marks is given in brackets [] at the end of each question or part question.

You are advised to spend no longer than 45 minutes on Section A.

Cell phones are not allowed in the examination room.

For Candidate's Use	For Examiner's Use
Section A	
Section B	
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Total	WITTERON #2175

1

Section A (40 Marks)

Answer all parts of question 1.

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Write your answers	in the	spaces	provided	OII	LITE	question	paper.

,,,,,,							
te your answers in the spaces provided on the question paper.							
(a)	Potassium is a mineral element required in relatively large amounts. State:						
	(i)	The mineral element that potassium has a complementary action with.					
		[1]					
	(ii)	Four rich sources of potassium.					
	(,						
6	A						
		[2]					
	(iii)	Two functions of potassium in the body.					
		[2]					
	(iv)	The deficiency disease which occurs if too little potassium is absorbed.					
		[1]					
(b)	(i)	State two functions of iron in the body.					
		[2]					
	(ii)	Suggest two groups of people who may be advised to increase the					
		intake of iron.					
		[1]					
	(iii)	What is the relationship between ascorbic acid (Vitamin C) and iron?					
	(1117	What is the relationship between associate state (***					
		[1]					
(c)	What	t problems are associated with the statements below?					
(=)		A low sodium intake					
	(i)	A low souldin intake					
	7111	Too much or high sodium intake.					
	(II)	100 much of high sodium make.					

	(d)	(i)	State four functions of water in the body.	For Examiner's
			[4]	
()		(ii)	Define dehydration.	
			[1]	
		(iii)	Explain two circumstances which can bring about body dehydration.	
			[2]	
		(iv)	What is the recommended daily intake of water?	
			[1]	
	(e)	The fi	igure below shows some parts of the human digestive system.	
			A B B E	
		(i)	Label the parts above (A, B, C, D, E, F).	
			Α	
			В	
			c	,
			D	
			E	
			■ [2]	For Examiner's use

(i		explain briefly the roles played by the following structures in the process of digestion:
	C	3
)
		[2]
	E:	
		[2]
(i		Name the nutrient digested in structure B and state any condition under which the nutrient would be digested.
	N	Nutrient:[1]
	C	Condition:
		[1]
(i	iv) E	Explain the functions of the following enzymes during digestion and absorption of food.
	Lá	Lactase:
	R	Rennin:
	P	Ptylin:
	_	
(f) G	Sive thr	ree general rules to follow when feeding invalids.
•	.,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		[3]
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(g) V	Write do	own any two uses of eggs in cookery.
,		[2]
,	114,	[Total 40 marks

Section B (60 Marks)

2

There are six questions in this Section. Answer any four. Write your answers on the separate Answer Booklet provided.

2	Manu	facture	tured foods often contain certain food additives.						
	(a)	List f i	ive reasons why food should contain additives.	[5]					
	(b)	Give t	three examples of synthetic additives.	[3]					
	(c)	Menti	on five important requirements of food additives.	[5]					
	(d)	Why a	are nutrients added to food during manufacturing?	[2] [15]					
3	Preser	rvation	prolongs 'shelf life' of foods.						
	(a)	Defin	e preservation.	[1]					
	(b)	Name	four main methods used in the preservation of food.	[4]					
	(c)	Name jam.	e four common faults and causes likely to be found in a home-r	made [8]					
	(d)	Sugge	est four chemical preservatives which can be added to flour.	[2] [15]					
4	(a)	Name	three methods of heat transference, giving an example in each	on one					
	(b)	(i)	Name two methods of steaming.	[2]					
		(ii)	List down four points to consider when steaming.	[4]					
	(c)	(i)	Give four differences between boiling and stewing.	[4]					
		(ii)	Give two suitable foods which can be cooked by each method mentioned in part (c) (i).	[2]					
5	Cereal	s are o	ne of the most important foods in nearly every country.	[15]					
	(a)	Name	any six types of cereals.	[3]					
	(b)	Draw the wheat grain and label the following parts.							
		(i)	Endosperm						
		(ii)	Aleurone layer						
		(iii)	Germ	[5]					

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(c) Define the term 'extraction rate' of flour.						
	(d)	Show	[3]			
	(e) Explain why spring wheat is best suited for bread making.					
6	(a)	Explai	n each of the following terms or processes.			
		(i)	Collagen			
		(ii)	Basting			
- /		(iii)	Garnishing			
C	$\mathbf{Y}_{\mathbf{A}}$	(iv)	Dextrin			
		(v)	Gelatinization			
		(vi)	Blending	[12]		
	(b)	State	any three health problems associated with obesity.	[3] [15]		
7	(a)	Defin	e a sauce.	[1]		
	(b)	State	four different ways of thickening sauces.	[4]		
	(c)	Write	down four functions of sauces in food preparation.	[4]		
	(d)	Give	the basic recipe for making Roux sauce.	[6] [15]		