

**SECTION A**

(1) Study and give the description of nutrition facts in the images designated as [A] and [B]. Which of it will you recommend for an aged, diabetic patient with heart disease and give reasons for your choice.....15 marks

[A]

Nutrition Facts	
Amount Per Serving	
Serving Size 1 cup (8g)	
Serving Per Container	
Calories 35	Calories from Fat 10
<b>% Daily Value*</b>	<b>% Daily Value*</b>
Total Fat 1g	2%
Saturated Fat 0g	0%
Trans Fat 0g	0%
Monounsaturated Fat 0.5g	
Cholesterol 0mg	0%
Sodium 0mg	0%
Total Carbohydrate 6g	2%
Dietary Fiber 2g	8%
Sugars 0g	
Protein 1g	
Vitamin A 0%	Vitamin C 0%
Calcium 0%	Iron 0%
*Percent Daily Values are based on a diet of other people's misdeeds.	
†Your daily values may be higher or lower depending on your calorie needs.	
Total Fat	Less than 5g
Saturated Fat	Less than 2g
Cholesterol	Less than 50mg
Sodium	Less than 240mg
Total Carbohydrate	50g
Dietary Fiber	2g
Total Carbohydrate	50g
Dietary Fiber	2g
Calories per gram:	Protein 4
	Carbohydrate 4
	Fat 9

[B]

Nutrition Facts	
Amount	
Per 4 cookies (28g) / par 4 biscuits (28g)	
% Daily Value	
% valeur quotidienne	
Calories / Calories	130
Fat / Lipides	4.5 g
Saturated / saturés	2.5 g
+ Trans / trans	0.1 g
Cholesterol / Cholestérol	5 mg
Sodium / Sodium	65 mg
Carbohydrate / Glucides	19 g
Fibre / Fibres	2 g
Sugars / Sucres	5 g
Protein / Protéines	3 g
Vitamin A / Vitamine A	0%
Vitamin C / Vitamine C	0%
Calcium / Calcium	0%
Iron / Fer	2%

(2) Inhibition of the action of enzymes like [i] acetylcholinesterase and [ii] angiotensin-1 converting enzyme is adjudged a useful approach in the management of some degenerative diseases. Identify the disease linked with each of the enzymes above and Describe how a named functional food could be useful in their management.....15 marks

- (3a) Describe any five (5) methods of preserving food.....5 marks  
 (3b) Briefly comment on the occurrence of the listed pathogens in food;  
 (1) Salmonella.....5 marks  
 (ii) Tapeworm.....5 marks

**SECTION B (N.B. Each question carries 15 marks in this Section)**

- (4a) Explain the following terms  
 (i) Cofactor  
 (ii) Coenzymes  
 (iii) Prosthetic group  
 (4b) Describe in biochemical terms the mechanism involved in night blindness

- (5) Write an essay on;  
 (a) Protein in Human Nutrition  
 (b) Evaluation of Nutritional status  
 (6) Write short notes on any four of the following  
 (i) Essentiality of amino acids  
 (ii) Methods of assessing protein quality  
 (iii) Energy metabolism  
 (iv) Protein of physiological importance  
 (v) Properties of fat-soluble vitamin  
 (vi) Kwashiorkor  
 (vii) Dietary fiber