

# FACULTY OF CULINARY ARTS

#### **FINAL EXAMINATION**

Student ID (in Figures)	:											
Student ID (in Words)	:											
Course Code and Name	:	CUL	1173	Nutri	tion a	ind Se	nsory	Anal	ysis			
Semester and Year	:	Jan -	April	202	3							
Lecturer/Examiner	:	Abd	ul Mu	ıdzzar	nir							
Duration	:	2 Ho	ours									

#### **INSTRUCTIONS TO CANDIDATES**

1.	This question paper consists of 3 parts:					
	PART A (20 marks)	:	Answer all TWENTY (20) multiple choice questions. Answers are to be			
			shaded in the Multiple Choice Answer Sheet provided.			
	PART B (50 marks)	:	FIVE (5) short answer questions. Answers are to be written in the Answer			
			Booklet provided.			
	PART C (30 marks)	:	Answer TWO (2) essay questions. Write your answers in the Answer			
			Booklet(s) provided.			

- 2. Candidates are not allowed to bring any unauthorized materials except writing equipment into the Examination Hall. Electronic dictionaries are strictly prohibited.
- 3. This question paper must be submitted along with all used and/or unused rough papers and/or graph paper (if any). Candidates are NOT allowed to take any examination materials out of the examination hall.
- 4. Only ballpoint pens are allowed to be used in answering the questions, with the exception of multiple choice questions, where 2B pencils are to be used.
- **WARNING:** The University Examination Board (UEB) of BERJAYA University College regards cheating as a most serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from BERJAYA University College.

## Total Number of pages = 8 (Including the cover page)

#### PART B SHORT ANSWER QUESTIONS (50 MARKS) :

INSTRUCTION(S) : Answer FOUR (4) short answers. Write your answers in the Answer Booklet(s) provided.

- 1. Define the following terminology:
  - Mono-saccharides a. (8 marks)
  - b. Denaturation
- 2. Major minerals are needed in relatively large amount in our diet (over 100 milligrams daily). Sodium and calcium are common examples for major minerals.
  - State TWO (2) functions of sodium and TWO (2) functions of calcium a. in our human body process. (8 marks)
  - b. Most people eat more salt (and therefore sodium) than they need. Analyze FIVE (5) strategies to reduce the salt intake in our daily diet. (10 marks)
- 3. Vegetarian is one of nutrients diet group where most of their diet derived from plants with or without eggs and dairy products.
  - List down and explain **FOUR (4)** types of major vegetarian group. (8 marks) a.
  - b. Being a vegetarian does not guarantee that your diet will meet current dietary recommendations. Briefly explain FOUR (4) reasons why a person becomes a vegetarian. (8 marks)
- 4. Draw and label the human digestive tract (gastrointestinal tract).

(8 marks)

## **END OF PART B**

## PART C : ESSAY QUESTIONS (30 MARKS)

**INSTRUCTION(S)** : Answer **TWO (2)** essay questions. Write your answers in the Answer Booklet(s) provided.

#### 1. <u>Case study:</u>

Neymar is starting an exercise program. He plans to run before lunch and then play racket ball every night after dinner. His typical diet is listed below:

#### Neymar's Typical Diet

Breakfast	Lunch	Dinner
Orange Juice	Big Mac	Steak
Coffee	French Fries	Baked potato with sour cream and
	Milkshake	butter
		Green beans in butter sauce
		Salad with Italian dressing
		Whole milk

Once he begins his exercise program he finds that he feels tired and hungry before his late-morning run. After running he doesn't have much of an appetite so he saves his fast food lunch until mid-afternoon. He is still hungry enough to eat dinner at home with his family, but finds that he is getting stomach cramps and is too full when he goes to play racket ball.

a. Examine how Neymar might change his diet so it is better suited to his exercise program.

(10 marks)

b. Recommend **FIVE (5)** changes that Neymar might take to have a more balanced program.

(10 marks)

2. Various forms of soybeans are eaten in Malaysia: soy oil, tofu (bean curd), soy sauce, miso, *tempeh*, meat analogs, soy cheese, soymilk, soy-flour and soy nuts. Much research is being done on the health effects of soy. Food containing soy protein may reduce the risk of coronary heart disease when it is consumed as part of diet low in saturated fat and cholesterol. Soybeans contain phytoestrogens, which are chemically similar to estrogen, the female hormone. Some possible health effects of soy are due to the fact that phytoestrogen can mildly mimic the action of estrogen in the body. Some studies suggest that soy food may reduce hot flashes in women after menopause when natural estrogen is lacking, as well as prevent bone loss. Soy's possible role in preventing breast cancer is uncertain.

As a health advisor, make use of the information above to advise your client regarding the importance of protein for daily intake.

(10 marks)

## END OF EXAM PAPER