

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2017/2018**

COURSE NAME

: NUTRITION

COURSE CODE

BWD 20203

PROGRAMME CODE :

BWD

EXAMINATION DATE :

JUNE/JULY 2018

DURATION

3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1	Digestion is the body's ingenious way to break down food into nutrients in preparation of
	absorption.

(a) Briefly explain the pathway of cheese sandwich through the digestive system.

(6 marks)

(b) Provide an example of mechanical and chemical digestion

(2 marks)

(c) Nurul takes a medication that will reduce the production of her stomach's mucus. Based on this information, predict and explain briefly on the potential stomach disorder that she is at risk?

(6 marks)

(d) Describe concisely the effect of pancreases removal towards digestive system and process?

(6 marks)

- Q2 A Vitamin is a complex organic compound that regulates certain metabolic process in the body.
 - (a) List THREE (3) factors that distinguish vitamins from macronutrients?

(3 marks)

(b) One of your friend takes megadoses of vitamin A, C and B-6 because she thinks they help her stay healthy. Hypothesize the setback of this action?

(6 marks)

- (c) The following list recognizes that in certain circumstances, these people may need to avoid specific supplements. Predict the outcome if?
 - (i) Men and postmenopausal woman take iron supplement?
 - (ii) Smoker takes beta-carotene supplement?
 - (iii) Postmenopausal woman take Vitamin A?
 - (iv) Surgery patients take Vitamin A?

(4 marks)

(d) Vitamin E is a fat-soluble antioxidant and one of the body's primary defenders against the adverse effect of free radicals. Examine deficiency symptom and effect of excessive intake of Vitamin E in human body.

(7 marks)

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2

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- Q3 Water, calcium and all the other major minerals support fluid balance and bone health.
 - (a) Summarize the after effect of the cell if the body is unable to regulate its water balance?

(4 marks)

- (b) Rationalize the effect of excessive water consumption in a short time to our body?
- (c) Discuss how do antidiuretic hormone and aldosterone help maintain fluid balance in the body?
- (d) Identify at least FOUR (4) major risk factors for osteoporosis.

(4 marks)

(6 marks)

- Q4 Cardiovascular disease (CVD), a group of disorders involves heart and blood vessel. The most common form of CVD is coronary heart disease (CHD), which is usually caused by atherosclerosis in the coronary arteries.
 - (a) Discuss FOUR (4) factors that contribute to atherosclerosis development.

(8 marks)

(b) Evaluate dietary strategies that can reduce CHD risk or prevent future heart attack.

(6 marks)

(c) The potentially beneficial role of plant-based diets and vegetarian diet in cardiovascular health has been increasingly recognized. Compare and contrast between plant-based diets and vegetarian diet benefit on CHD health.

(6 marks)

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- Q5 BMI is an estimate of body fat and a good measure of your patients' risk for diseases that can occur with overweight and obesity
 - (a) Explain why it is usually difficult to pinpoint a cause of obesity?

(4 marks)

(b) Justify why do most people who lose weight are not able to maintain their lower body weight over time?

(4 marks)

(c) Discuss briefly both the advantages and setbacks of having BMI within the overweight or obese range. Propose a lifestyle changes that could be employ towards losing weight.

(6 marks)

(d) South beach diet and atkin diet are commonly practice for losing weight. Compare and contrast between both diet plans.

(6 marks)

- END OF QUESTIONS -

