

KOLEJ YAYASAN PELAJARAN JOHOR ONLINE FINAL EXAMINATION

COURSE NAME : FOOD NUTRITION

COURSE CODE : DCA1083

EXAMINATION: DECEMBER 2021

DURATION : 3 HOURS

INSTRUCTION TO CANDIDATES

1. This question paper consists of **THREE (3)** parts: PART A (20 Marks)

PART B (60 Marks)
PART C (20 Marks)

- 2. Please refer to the detailed instructions in this question paper.
- Answer ALL questions in the answer sheet which is A4 size paper
 (Or other paper with the consent of the relevant lecturer).
- 3. Write your details as follows in the upper left corner for each answer sheet:
 - i. Student Full Name
 - ii. Identification Card (I/C) No.
 - iii. Class Section
 - iv. Course Code
 - v. Course Name
 - vi. Lecturer Name
- 4. Each answer sheet must have a page number written at the bottom right corner.
- 5. Answers should be **neat and clear in handwritten form.**

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO

This examination paper consists of 12 printed pages including front page

PART A

This part consists of TWENTY (20) questions.

Answer ALL questions in Answer Sheet.

- 1. If a person have BMI (Body Mass Index) range from 25 until 29, his/her weight is
 - _____-
 - A obese
 - **B** normal
 - **C** overweight
 - **D** underweight
- 2. The excess amount of _____ in our body will be generated as the body _____.
 - A energy, fat
 - **B** calorie, energy
 - **C** protein, energy
 - **D** kilocalorie, nutrient
- **3.** _____ is an estimation of the energy required to regulate body process.
 - **A** 20% 35%
 - **B** 40% 55%
 - **C** 50% 65%
 - **D** 60% 75%
- 4. Which organ in the human digestive system is involved in secretion of insulin?
 - A Liver.
 - **B** Lungs.
 - C Stomach.
 - **D** Pancrease.
- **5.** The primary energy provided to fuel sports activity is provided by _____.
 - A dietary carbohydrates
 - **B** protein supplementation
 - C dietary polyunsaturated fats
 - **D** daily vitamins and minerals intake

6.	Tota	al energy expended through metabolic processes and physical activities is		
(equal to energy in from the food calorie intake is referred to			
	Α	calorie in		
	В	energy in		
	С	energy out		
	D	energy balance		
7. \	Wh	ich organ is involved in the secretion of gastric juice during the digestion		
ı	process?			
	Α	Mouth.		
	В	Stomach.		
	С	Small intestines.		
	D	Large intestines.		
8. '	Wh	ich important mineral is found in all foods in the Dairy Groups?		
	Α	Iron.		
	В	Sodium.		
	С	Calcium.		
	D	Magnesium.		
9. '	Wh	at is the specific enzyme released during the digestion of fat?		
	Α	Lipase.		
	В	Pepsin.		
	С	Amylase.		
	D	Gelatinase.		
10.	Abo	out how much of your plate should be carbohydrates?		
	Α	One half.		
	В	One quarter.		
	С	Three quarters.		
	D	All of the above.		

11. Suga	ar in dairy products is commonly known as
A i	Maltose
ВІ	_actose
C	Sucrose
D	Fructose
12. A die	et high in sugar can be linked to
i.	Scurvy
ii.	Diabetes
iii.	Kwashiorkor
iv.	Heart disease
A i	, ii
B i	, iii
C i	i, iv
D i	, ii, iii
13. How	many calories are found in one gram of fat?
A 2	2
В 4	1
C	
D	12
14. A ho	rmone that increases the movement of glucose from the bloodstream into the
body	cell was known as
A i	nsulin
В	ipoxin
C t	hyroxine
D i	melatonin
15. Whic	ch nutrient supplies calories per gram as much as carbohydrates?
A	⁼ at.
В	Water.
C	Protein.
D \	∕itamin.

	he amount of protein needed by both men and women is gram	ıs per	
	kilogram of body weight.		
	A 0.80		
	B 0.85		
	C 0.90		
[D 0.95		
17. E	Eating large amounts of animal based protein will increase the i	n the body.	
	A linoleic acid		
E	B linolenic acid		
(C saturated fats		
[D unsaturated fats		
18. V	What is the condition that is caused by a Vitamin D deficiency among o	children?	
A	A Scurvy.		
E	B Rickets.		
(C Marasmus.		
[D Osteomalacia.		
19. V	What is the name of the protein that can be obtained from food?		
	A Valine.		
E	B Glutamine.		
(C Aspartic acid.		
[D Glutamic acid.		
20 . A	A human body use protein		
	i. As a messenger		
	ii. To work as enzymes		
	iii. As a defensive mechanism		
	iv. As a main sources of energy for metabolism		
	A i, ii		
E	B i, iii		
(C ii, iv		
	D i, ii, iii	20 MARKS]	

PART B

This part consists of **TEN** (10) questions.

Answer ALL questions in Answer Sheets.

QUESTION 1

Maria is a netball player and she wants to be physically fit before the final games. Therefore, it's important for her to keep track of her calorie intake on a regular basis in order to prevent gaining weight. Based on the information given below, answer the following questions:

1 kg	=	2.2046 pound
Gender	=	11 for male 10 for female
Activity	=	20% for light 30% for sedentary 40% for moderate 50% for active

Table 1

If Maria's weight is 63 kilogram, assess her energy expenditure for:

a. Basal metabolism.

(3 marks)

b. Physical activity.

(2 marks)

c. Absorption and digestion and total calorie need per day.

(3 marks)

QUESTION 2

a. Give one (1) type of sugar that is often called as dextrose.

(1 mark)

b. Distinguish between two (2) types of simple carbohydrates.

(2 marks)

	C.	How does fiber help in preventing constipation?	(2 marks)
Ql	JES	STION 3	
	а.	Describe one (1) protein function.	(1 mark)
	b.	Give two (2) differences between complete and incomplete protein.	(2 marks)
	C.	Classify two (2) types of diseases related with protein deficiencies.	(2 marks)
Ql	JES	STION 4	
	a.	Clarifying the concept of hydrogenization of fat.	(1 mark)
	b.	Distinguish two (2) reasons that make fats are essential to human b	ody. (2 marks)
	C.	Discover the function of lipoprotein in human body.	(2 marks)
Ql	JES	STION 5	
	a.	Describe the word sedentary behaviours.	(2 marks)
	b.	Discover two (2) types of activity that should be done everyday for suggested in Physical Activity Pyramid.	
			(2 marks)

c. Give **two (2)** examples of activities that required 30% – 50% of energy expenditure.

(2 marks)

QUESTION 6

a. Find the root cause of a person's potentially life-threatening eating disorder.

(1 mark)

b. Clarify the difference between anorexia nervosa and bulimia nervosa.

(1 mark)

c. Explain two (2) factors that cause a person's BMI to be higher than 30.

(2 marks)

d. People who are obese and are unable to achieve adequate weight loss with diet and exercise is able to go to other options such as taking drugs (medicine) as prescribed by the doctor. However, for certain types of conditions, surgery also can be the other option for them. Hence, compare **two (2)** types of surgery involved that can help in weight loss.

(4 marks)

QUESTION 7

a. Use your experience of health to define fitness.

(1 mark)

b. Discover at least **one** (1) component in sport drinks.

(1 mark)

c. Predict three (3) benefits of being physically fit.

(3 marks)

QUESTION 8

a.	Indicate at least one (1) nutrient that female teens need the most.	
		(1 mark)
b.	Explain the benefits of Vitamin D and calcium for infants.	
		(2 marks)
C.	Compare the pubertal development between boys and girls.	
		(2 marks)

QUESTION 9

a. Classify three (3) commonly used age groups in human life cycle.

(3 marks)

b. Discover at least two (2) types of nutrients needed by the elderly.

(2 marks)

c. What should an older adult do when they have special health issues such as deterioration of senses like taste and smell?

(1 mark)

d. Choose one (1) breakfast food that is considered healthier for adults.

(1 mark)

QUESTION 10

a. What is an antioxidant?

(1 mark)

b. Describe the relationship between the free radical and antioxidant.

(2 marks)

c. Find out **two (2)** types of vitamins that are useful to defense against free radicals.

(2 marks)

d. Choose one (1) activity that can cause production of free radicals.

(1 mark)

[60 MARKS]

PART C

This part consists of **FOUR (4)** questions.

Answer ALL questions in Answer Sheet.

QUESTION 1

Based on your understanding, explain a complete process of human eating behaviour.

(5 marks)

QUESTION 2

a. Underweight can caused several problems especially to our health. For instance, a person might have to deal with life-threatening eating disorder like aneroxia nervosa and bulimia nervosa. Hence, give **two (2)** causes of underweight that eventually can lead to these problems.

(2 marks)

a. Overweight and obesity can cause problems like perception and prejudices from others. They might suffer embarrassment and eventually affect their psychological health. Things that make it worst when it's also affect their health. Hence, you must prepare a full set of weight-loss-friendly menus (breakfast, lunch and snack time). The menu you're given should be focused on your knowledge of weight-loss strategies.

(3 marks)

QUESTION 3

The word infant is derived from Latin words "infans" which means unable to speak or speechless. Infants need a lot of nutrients especially Vitamin C and D, Vitamin B12, Folate, Calcium and Iron. Meanwhile, adolescence need more iron, calcium and folate. Therefore:

a. Define adolescence.

(2 marks)

b. Discover **two (2)** reasons that make calcium are essentials for both infants and adolescence.

(3 marks)

QUESTION 4

a. How can you stay healthy as you grow older?

(1 mark)

b. Present **four (4)** points that illustrate the ageing mechanism of the human body based on physiological changes in the human body.

(4 marks)

[20 MARKS]

END OF QUESTION PAPER