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SUPPLEMENTARY EXAMINATION

PROGRAMME: HUMAN MOVEMENT STUDIES

MODULE NAME : KINESIOLOGY

MODULE CODE : KIN 01B1 / HMS 1BA1 / HMS 2BB1 / MBK

1B01 / MBK 1B02 / BIK 01Y1

DATE: JANUARY 2017

DURATION: TWO (2) HOURS

TOTAL MARKS : 100 MARKS

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DR H. MORRIS-EYTON

NUMBER OF PAGES: SIX (6) PAGES

INSTRUCTIONS TO CANDIDATES:

ANSWER ALL THE QUESTIONS.

SECTION A IS WELLNESS AND SPORT INJURIES.

SECTION B IS MEAUREMENT AND EVALUATION.

SECTION A: WELLNESS AND SPORT INJURIES (50 MARKS)

QUESTION 1 (23 MARKS)

- 1.1 Identify five (5) signs of inflammation. [5]
- 1.2 Identify five (5) methods to prevent injuries. [5]
- 1.3 List (5 marks) and explain (5 marks) the general recommended treatment for common injuries. [10]
- 1.4 Identify the types of fractures from the following x-rays: [3]

a.



b.



c.



QUESTION 2 (10 MARKS)

- 2.1 List five (5) strategies for managing stress. [5]
- 2.2 List the five (5) health-related components of fitness. [5]

QUESTION 3 (7 MARKS)

3.1 Look at food label A below and a.) Calculate the calories that come from fat (1), b.) Calculate the calories that come from carbohydrate (1), and c.) Calculate the calories that come from protein (1). [3]

Label A **Nutrition Facts** Serving Size 1 cup (245g) Servings Per Container Amount Per Serving Calories 80 Calories from Fat 0 % Daily Value* Total Fat 0g Saturated Fat 0g 0% Trans Fat 0g Cholesterol 5mg 2% Sodium 105mg 4% Total Carbohydrate 12g 4% Dietary Fiber 0g 0% Sugars 12g Protein 8g Vitamin A 10% Vitamin C 0% Calcium 30% Iron 0% . Percent Daily Values are based on a 2,000 calorie diet, Your Daily Values may be higher or lower depending on your calorie needs. Less than 65g 80g Sat Fat Less than 20g 25g Cholesterol Less than 300mg 300mg Sodium 2,400mg 2,400mg Less than Total Carbohydrate 300g 375g Dietary Fiber 30g 250 Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4

3.2 Look at food label B below and a.) Calculate the calories that come from fat (1), b.) Calculate the calories that come from carbohydrate (1), and c.) Calculate the calories that come from protein (1). [3]

Label B

ng Ca	alories fro	m Fat 45
Ca		m Fat 45
	0/ P-11-	
	% Daily	Value
		89
Total Fat 5g Saturated Fat 3g		159
mo		79
Cholesterol 20mg Sodium 100mg		49
	120	
	ig .	49
0g		09
•	Vitamir	1 C 0%
*	Iron 09	%
y be highe	r or lower de	
ess than		80g
ess than	20g	25g
ess than	300mg	300mg
ess than	2,400mg	2,400m
	300g	375g
	mg J drate 1: Og are based by be highe Calories: ess than less than less than	rmg J drate 11g Og Vitamin Iron 09 are based on a 2,000 on be higher or lower de Calories: 2,000 .ess than 65g .ess than 300mg .ess than 2,400mg

3.3 Comparing the two food labels, which product would you recommend is the better option for consumers? [1]

Label A

Nutrition Facts Serving Size 1 cup (245g) Servings Per Container Amount Per Serving Calories from Fat 0 Calories 80 % Daily Value* Total Fat 0g 0% Saturated Fat 0g 0% Trans Fat 0g 2% Cholesterol 5mg Sodium 105mg 4% Total Carbohydrate 12g 4% Dietary Fiber 0g 0% Sugars 12g Protein 8g Vitamin A 10% Vitamin C 0% Calcium 30% Iron 0% Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs. Calories: 2.000 2.500 Total Fat Less than 65g 80g 25g Sat Fat Less than 20g 300mg 2,400mg Cholesterol Less than 300mg 2,400mg Sodium Less than Total Carbohydrate 300g 375g Dietary Fiber 25g 30g Calories per gram: Fat 9 • Carbohydrate 4 • Protein 4

Label B

Nutri	cup (24	14g)	3.0
Servings Per (Containe	r	
Amount Per Ser	vin n		
Calories 120		alories fro	m Fat 45
Culciles 120			
		% Daily	Value*
Total Fat 5g			8%
Saturated Fat 3g			15%
Trans Fat 0g			
Cholesterol 2			7%
Sodium 100m	na		4%
Total Carboh		10	4%
		ıy	0%
Dietary Fiber 0g			
Sugars 11g			
Protein 8g			
Vitamin A 10%		Vitami	n C 0%
	-	* 11001111	
Calcium 30%		Iron 0	%
 Percent Daily Value Your Daily Values re your calorie needs. 	may be high		
,	Calories:	2,000	2,500
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate Dietary Fiber		300g 25g	375g 30g

QUESTION 4 (10 MARKS)

- 4.1 Discuss five (5) ways exercise helps in weight management. [5]
- 4.2 Place the five stages of change in the transtheoretical model of behaviour change in order. [5]

SECTION B: MEASUREMENT AND EVALUATION (50 MARKS)

OUESTION 1 (10 MARKS)

- 1.1 Discuss (two) 2 methods of taking a resting heart rate. [4]
- 1.2 Explain the procedures for skinfold measurement. [6]

QUESTION 2 (10 MARKS)

State whether the following is true or false.

- 2.1. Weight should be measured on a scale to the nearest 0.5kg.
- 2.2. Height is taken using a long measuring tape from the ground to the top of the head.
- 2.3. An extremely obese person may contribute to a measurement error while taking skinfolds.
- 2.4. Acute Myocarditis is an absolute contraindication to exercise testing.
- 2.5. A BMI value within the range of 18.5-24.9 is considered overweight.
- 2.6. An example of a muscular endurance test is the 1 repetition maximum.
- 2.7.Maximal oxygen uptake or VO2max is defined as an individual's maximum capacity to consume oxygen and further, to utilise this oxygen at a cellular level.
- 2.8. Submaximal exercise testing of a moderate risk subject requires supervision by a physician.
- 2.9. Clothing should not permit freedom of movement during testing.
- 2.10 Flexibility is the ability to move a joint through its complete Range of motion.

QUESTION 3 (7 MARKS)

Complete the table below regarding single joint range of motion movements in degrees.

[7]

Fitness Component	Fitness Test
Speed	
Agility	b.)
Power	c.)
Muscle strength	d.)
Muscle Endurance	e.)
Flexibility	f.)
Anaerobic capacity	g.)

QUESTION 4 (10 MARKS)

Describe the procedures for the assessment of resting blood pressure.

[10]

QUESTION 5 (8 MARKS)

Name and discuss four (4) important components of the medical history.

[8]

OUESTION 6 (5 MARKS)

List five (5) absolute contraindications to exercise testing.

[5]

[50]

TOTAL: 100 MARKS