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(University of Choice)

# MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS** 

**2021/2022 ACADEMIC YEAR** 

SECOND YEAR SECOND TRIMESTER SPECIAL EXAMINATION

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN GLOBAL HEALTH AND TRAVEL MEDICINE

**COURSE CODE: NCG 223** 

COURSE TITLE: COMMUNITY HEALTH NUTRITION AND FOOD

SAFETY

DATE: 04/10/2022 DAY: Tues TIME: 11.30-2.30PM

INSTRUCTIONS TO CANDIDATES

THIS PAPER CONSIST OF THREE SECTIONS A, B AND C

**ANSWER ALL QUESTIONS** 

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating



## **SECTION A: 20 MCQs (20 MARKS)**

NCG 223

1.	is essential	for	strength	hening	teethe	s and	bones.
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- a) Calcium
- b) Iron
- c) Phosphorous
- d) Magnesium

#### 2. Excess carbohydrates in the body are converted to

- a) Muscle tissue
- b) Adipose tissue
- c) Connective tissue
- d) None of the above

#### 3. Deficiency of vitamins A in the body causes

- a) Nyctalopia
- b) Goiter
- c) Brittle bones
- d) Dermatitis

#### 4. Which one is not a digestive enzyme

- a) Amylase
- b) Maltose
- c) Lactase
- d) Lipase

#### 5. Which of the following is a macronutrient?

- a) Vitamin K
- b) Iodine
- c) Triglyceride
- d) Amino acid

#### 6. Which method of nutritional assessment is used in assessing fat free mass?

- a) Mid upper arm circumference
- b) Head circumference
- c) Hip-to-waist ratio
- d) Weight/height m<sup>2</sup>

7. What is the building block of nutrient pro	ten	te	ro	pi	t	rient	nutr	of	ock	b.	building	the	hat is	7. V	7
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- a) Triglyceride
- b) Glyceride
- c) Phenyl alanine
- d) Amino acid

## 8. The nutrient found in sugar is

- a) Fats
- b) Proteins
- c) Vitamins
- d) Carbohydrates

## 9. Digestion of carbohydrates starts in the

- a) Large intestines
- b) Small intestines
- c) Mouth
- d) Stomach

#### 10. Digestion of proteins starts in the

- a) Large intestines
- b) Small intestines
- c) Mouth
- d) Stomach

#### 11. BMI is the abbreviation of

- a) Body matrix index
- b) Basal mass index
- c) Body mass index
- d) None of the above

# 12. Foods like kales, spinach and broccoli are rich in

- a) Carbohydrates
- b) Proteins
- c) Vitamins
- d) Fabre

	NCG 22
13. What	is the scientific name for vitamin $B_1$ ?
a)	Riboflavin
b)	Thiamine
c)	Niacin
d)	Pyridoxine
14. Iodine	e deficiency causesin adults andin children.
a)	Goiter, cretinism
b)	Cretinism, goiter
c)	Goiter, iodinitis
d)	Iodinitis, cretinism

- 15. Identify the sources of the mineral zinc
  - a) Milk, eggs, green vegetables, and orange vegetables
  - b) Beans and lentils, citrus fruits, and leafy green vegetables
  - c) Beans, nuts, whole grains, and dairy products
  - d) All of the above
- 16. Deficiency in vitamin B<sub>9</sub> causes
  - a) Severe birth defects, growth problems, or anemia
  - b) Scurvy, dermatitis, keratonitis
  - c) Cracked lips, sore tongue, sores in the corners of the mouth
  - d) Pernicious anemia
- 17. Deficiency of proteins and carbohydrates in infants leads to
  - a) Marasmus
  - b) Goiter
  - c) Obesity
  - d) Kwashiorkor
- 18. Fat is completely digested in the
  - a) Stomach
  - b) Mouth
  - c) Small intestine
  - d) Large intestines

- 19. Phytonadione is the chemical name of
  - a) Vitamin E
  - b) Vitamin A
  - c) Vitamin B6
  - d) Vitamin K
- 20. Where does the enzyme amylase produced?
  - a) Small intestines
  - b) Salivary glands
  - c) Stomach
  - d) Liver

#### **SECTION B: SAQs (40 MARKS)**

- 1. Explain the work of amylase hormone in digestion (8 marks)
- 2. Describe the different types of fats and oils (8 marks)
- 3. Using the ABCD acronym explain nutritional assessment (8 marks marks)
- 4. Explain the classifications of essential nutrients based on the amount required by the body (8 marks)
- 5. Describe the energy balance equation (8 marks)

# SECTION C: LAQs (40 MARKS)

- 1. Explain the composition of a balanced diet and its importance on the body (20 marks)
- 2. Discuss the factors influencing energy requirements (20 marks)

CHN&FS