



THE UNIVERSITY OF ZAMBIA SCHOOL OF PUBLIC HEALTH DEPARTMENT OF ENVIROMENTAL HEALTH

TEST 1: EHS 2610: Food CHEMISTRY AND NUTRITION

SECTION A: ANSWER ALL (MCQ)

Circle the right answer

1; This food group is our body's best source of energy?

- A. Meat Group
- B. fats, oils and sweets
- © breads and cereals
 - D. milk and cheese
- 2. Which of these is NOT considered a nutrient?
 - A. vitamins
 - (B) minerals
 - C. fiber
 - D. fats



3. Which of these is required on the food label?

A. total carbohydrate

SectA

B. sugars
C. iron
(D) all of the above
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4. Foods from the meat, poultry, fish dry beans, eggs and nuts group are animportant
source of?
Airon
B. fiber
C. beta carotene
D. calcium
5. Which of the following nutrients is needed to build and maintain the structural components of the body?
A. Carbohydrates
·
B Protein C. Fat
D. Fiber
5. Which of these nutrients is the preferred energy source for the body? A. B Complex Vitamins (B) Carbohydrates C. Fats
D. Fiber
6. The difference between fats and oils is, fats
A. have a high percentage of fatty acids as saturated fatty acids
B. have a high percentage of fatty acids as unsaturated fatty acids
C. are solid at room temperature
D. are usually obtained from plant sources
(E) both a and c
7. To the hade average energy is
7. In the body, excess energy is
A. stored as free fatty acids in muscle tissue (B) stored as glycogen, as the body has unlimited capacity to store water and
carbohydrate C
C. stored as triglycerides in adipose tissue
D. excreted by way of the urine and stool (feces)
8. The foods most often contaminated with aflatoxins are
A. cheeses made from unpasteurized milk
B. meats from wild animals such as bear and deer
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C) fish and shellfish
D. wheat, corn, peanuts and tree nuts
- No 12~ - 12 - 12 - 12 - 12 - 12 - 12 - 1

9. Cross-contamination of foods occurs
A. when perishable foods are kept at room temperature up to two hours
B. when two or more food handlers are working with the same food
C when two or more different microorganisms are growing in the same food
(D) when a utensil contaminated with a microorganism from a previously handled food
is allowed to come in contact with a second food and contaminates it
10. A reliable source of dietary iodide is
A iodide-fortified salt B. seed oils C. sea salt D. freshwater fish 12 After digestion and absorption, dietary carbohydrate may be: A used for energy B. converted to glycogen and stored in liver or muscle tissue C. synthesized into fat Da, b, and c E. none of the above 14. A substance intentionally added that affects the nature and quality of food is
called
a) Food poison
(b) Food adulterant
c) Food contaminant
d) Food material
15. Why are food adulterants added?
a) To increase shelf-life of products. E.g Urea
b) To improve flavor color and appearance
c) To sell lesser quantity at the same price
(d) All the mentioned
16. Methods for detection of common adulterants are
a) Visual tests b) Chemical tests c) Physical tests

SECTION B. ANSWER ALL QUESTIONS

- 1. What are the key components of the definitions of "Functional Foods" and "Nutraceuticals", as defined by Food and Drug Act Cap 303? How do these relate to "foods", "Novel Foods" and "Natural Health Products"? Use examples to support your answer
- 2. Besides the information contained in the definitions in Question I above, what other factors might need to be considered in deciding if a Functional Food or Nutraceutical is physiologically-functional.
 - 3. What is meant by "bioaccessibility" and by "bioavailability"? What factors influence these parameters and how could they be improved?
 - a) What is over nutrition or undernutrition?
 - b) What are the three major sources of three major macronutrient?
 - c) What are the three major sources of three micronutrients?

SECTION C ANSWER ONE QUESTIONS

- 1. What are the main factors influencing food choice among adolescents? To what extent are these choices impacting on diet related diseases?
- 2. What should be the main diet and lifestyle of consumers to avoid over nutrition and nutrition related disease. Give examples of such nutrition related diseases

SECTION B (2016/193036)

Question 1:

functional foods are foods that provide health benefits beyond traditional basic health benefits beyond traditional basic nutrients. E.g Lycopene fond in tomatoes mutricals presents prostate concer in males.

Nutracenticals are fiscel supplements that wealth are manufactured to provide extra wealth benefits. Examples of these are mose tablets benefits. Examples of these are prosed mond which are Claims to provide a good mood which are Claims to provide the brain with good for example and to provide the brain with good memory.

They relate to "foods" "weel foods" and "Natural "lealth products" be cause they all also provide essential pursuents for the normal functioning of its the body.

For example, fish contains Calcum which is for example somes and feeth and orange singersant for Strong bones and feeth and orange so force may be fortified with Calcum to provide the Same wealth benefit.

Again, Natural vistamin Bb find in Fish Come be used to forsity Breads and gerals to provide the Same health benefits. 2

Question. (2016133036) SECTION B Question 2! - Effectiveness of fuctional foods or westralentical - Bearly of acceptable results by mijority - Again, if there are groof reports about the willings who have the people where the people who have the people who have the people where the people who have the people where the people who have the people where the people who have the people who have the people where the people where the people who have the people where the people who have the people where the people which which the people - If they do not have side effects which.

Can be a danger to lauman health. - It the graducts are not compromised by the individuals who have used from Sefere. State og persons health - Evidence tocsed lota og ets functionally

Questin 3! Bisaccessibility is a condition shere foods are easily accessible or shere food can be reached by idividuals ad writized. Biograilubility et univertoods are available but Net necessaring reacted by individuals.

Jactors that influence these farameters are Biological, P

Curi muedal act economic factors. (a) Over nutrition is vage were on individual consumes food above the normal required water Under nutrition appros men par individual?

Food inface es deprived of normal required nufrants, (b) proteins proteins carpolydrates tiples (b) Major macnonument! plants () facts och vill (eng cereals) (eng Butter) major sources ! Plan Animals (e-g beef) Poreed' Leginis mail Micronutneints ! Potassim Calcium Vitamin A Major Sources; Finals ad Coloned vegetables Fruits and Fish (e.g Carrots) (e-g Bananas).

SECTION C (DOLLINGS)

auestion 2! The main diet of Consumers should be a balanced diet. A balanced diet mich comprises the of proteins, Carbingdontes, ligids, dialong filor, Vitaminis and water. Proteis in the doct is essential for growth of repair of own out tissues. Carbolydrates grandes energy for me body/hipids for des is present in a diet for formadion of cell prembrane and providing warmin for the body diedary fibers presents costophing Again, virtumes virtumens are important for metabolic reactions in the body and bothy water suich is used in the transportation of nutrients and temperature balance. Therefore, the life style of (monmers should be food of exercises, balancing frod intake, eating a variety of foods to about essential nutroits for the body and and making a food plan or food timetable to control your diet. A healthy nutrition is important to prevent nutrition related diseases such as arrowing nemory Bulimia nervosa, Binge disorder, obsesty, marasmus, Kusa shisker, Hypertensión, Hoh blood fressne, Cardiac désease, Concer oud wier hands

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