Course Title: Food Chemistry& MNA

Date: 22/05/2018 No. of Questions: (6) Time: 2 hours

Using Calculator (No)

University of Palestine



Final Exam For 2nd
Semester.
2017/2018
Total Grade:30

Instructor Name: Dr. Ghada AL-S	aqqa
Student No.:	
Student Name:	_
College Name: Pharmacy	
Den. / Specialist: Health & Nutri	itioı

Question One:	5 Marks	
Define the following terms:		
1) Food additive.		
2) Chylomicrons.		
3) Mineral water.		
4) Natural vinegar.		
5) Emulsions.		
6) Polyunsaturated fatty acid (PUFA).		
7) A spice.		
8) Food supplements.		
9) Gluconeogenesis.		
10) Salt.		

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glucose levels (

).

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Dep. / Specialist: Health & Nutrition Using Dictionary (No)

Question Two:	5 Marks

Put (T) for true answers and Put (F) for false answers.		
,	Unlike vitamins, which are inorganic substances, minerals are organic and are found in rocks and soil ().	
	Foodborne molds produce chemical compounds called mycotoxins that have been linked to cancer ().	
	In cereals, little moisture cause yeasts and bacteria growth and high moisture may cause growth of mold ().	
4) 1	Honey is a sweet, viscous food substance produced by bees and some related insects().	
·	Fat- soluble vitamins are not stored in the body, while water soluble vitamins are stored in the body ().	
6) 1	Frozen vegetables are less nutritious than fresh vegetables ().	
7)]	Iodine is needed to make essential thyroid hormones ().	
	High-protein, low-carbohydrate diets may work more quickly than low-fat diets, at least in the first six months ().	
9) 1	Linoleic and linolenic acids lowers the fat and cholesterol contents of blood ().	

10) Insoluble fiber helps slow digestion and absorption of glucose, helping control blood

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Student Nai	me:
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Den. / Sneci	alist: Health & Nutrition

Using Dictionary (No)

5 Marks

Write the expression that refers to the following:

- 1) Vitamins that help the body break down amino acids, produce enzymes, and synthesize new proteins include B6 (pyroxidine).
- 2) Consists primarily of two distinct and individual proteins, glutenin and gliadin.
- 3) Usually contain carbohydrates, which, although indigestible by the human digestive tract are digested by bacteria located along the large intestine, causing bloating.
- 4) Low in calories, high in sweetness and dangerous for people with PKU.
- 5) A starch (a heteropolysaccharide) that occurs naturally in the cell walls of fruits and vegetables.
- 6) Scientific discipline that analyses and measures human responses to the composition of food and drink, e.g. appearance, touch, odor, texture, temperature and taste.
- 7) A condition that can affect some individuals who have a deficiency in the enzyme lactase resulting in an inability to digest lactose properly.
- 8) A group with an odd number of unpaired electrons. They are extremely unstable and immediately react with another molecule to form stable substances.
- 9) Synthesized in skin exposed to sunlight and it regulates the absorption of phosphorus and calcium during bone growth.
- 10) Any dye, chemicals or substance that imparts color when it is added to food or drink. They come in many forms consisting of liquids, powders, gels and pastes.

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uestio	n Four:	5 Marks
Answe	er <u>Five</u> parts only.	
1)	Shortly, mention iron forms .	
2)	Why use food flavoring?	
3)	Write about beneficial effects of $\beta-$ carotene.	
4)	What's the difference between "enriched" and "fortified'	' foods?
5)	Shortly, mention factors affecting the bioavailability of m	iinerals.
6)	Who Uses Dietary Supplements?	

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C) A+B.

D) None of the above.

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0 4	
Questio	on Five: 5 Marks
Choos	se the best answers.
1)	Potassium is one of the major minerals that plays an important role in maintaining
	A) Muscle contraction and nerve impulse conduction.
	B) A blood buffer.
	C) Fluid balance.
	D) All of the above.
2)	Lactose is the sugar found in milk and casein is one of the major
	A) Vitamins.
	B) Proteins.
	C) Fats.
	D) Minerals.
3)	Importance of oilseeds are the following, except:
	A) Can help slow the aging process.
	B) The main source of vegetable oil used for cooking purpose.
	C) Source of energy supply.
	D) Medicinal use.
4)	Magnesium (Mg) is the fourth most abundant mineral in the body and it
	A) Helps lower high blood pressure and reduces risk of type 2 diabetes.
	B) Acts as a cofactor for more than 300 enzymes, including energy metabolism.

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D) Lentils.

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Using Dictionary (No)

5) Rancidity leads to the formation of both compounds.
A) Unpalatable and toxic.
B) Palatable and toxic.
C) Palatable and non toxic.
D) Unpalatable and non toxic.
6) Caffeine is defined as a drug because it
A) Stimulates the central nervous system.
B) Causing increased alertness.
C) A+B.
D) None of the above.
7) Pantothenic acid (B5) is
A) Essential for the formation of glycogen.
B) Required for the synthesis of certain steroids hormones.
C) A+B
D) None of the above.
8) Plant proteins are typically incomplete, <u>except:</u>
A) Beans.
B) Soy.
C) Peas.

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9) Eggs contain			
A) Vitamin E.			
B) Vitamin A.			
C) Vitamin D.			
D) Choline.			
A) Albumin.			
B) Myoglobin.			
C) Hemoglobin.			

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Using Dictionary (No)

Question Six: 5 Marks

Match between column A and B

	Column A	Column B	
1	The antioxidant function of vitamin E	May increase the chance of neural tube defects, such as an encephaly or spina bifida (a birth defect in which the spine is exposed).	
2	Fruits and vegetables	Are one of the most important reactions taking place during food processing and storage.	
3	Vitamin B2 "riboflavin"	Plays an essential role in blood clotting.	
4	Consuming excess sugars can	Provides a source of omega-3 fatty acids - the healthy fats that play a role in regulating blood cholesterol and supporting proper brain functioning.	
5	A lack of folic acid (vitamin B9) before and during pregnancy	Play a preventative role in many age-related diseases.	
6	Tea	Contributes to obesity, lead to type 2 diabetes, cause poor memory formation, learning disorders.	
7	Vitamin K	Supports the development of red blood cells and plays a role in the metabolism of carbohydrates, proteins, and fats.	
8	Fish	May reduce risk of age-related macular degeneration.	
9	Zinc	Help protect against cardiovascular and degenerative diseases.	
10	Browning reactions	Is critical for the prevention of oxidation of unsaturated fatty acids.	

End of Questions

Good Luck