

19/1/2022

Course Name: Biochemistry
Time: 2 hours

Exam Booklet

- This exam consists of 3 questions in 3 pages.
- All questions should be answered.
- The questions must be answered in the space provided in the exam booklet.

Examination committee	Prof. Dr. Atef Abd El-Baky

Question (I): (12 Marks)

Select and answer the most appropriate answer or completion:

- 1- The increases of ketogenesis will occur in all the following conditions, Except:
 - a- Starvation.
 - b- Diabetes mellitus.
 - c- Carbohydrate poor diet
 - d- High protein diet.
- 2- All the following are plasma, Except:
 - a- Casein b- Albumin c- Globulin d- **Fibrinogen**.
- 3- Pellagra may result from the deficiency of the following, except:
 - a- Niacin. b- Pyridoxal phosphate
 - c- Biotin. d- Tryptophan
- 4- Milk is the richest source of
 - a- Calcium
 - **b-** Phosphorus
 - c- vitamins A and B.
 - **d-** All of the above.
- 5- Iron does not supply the baby needs, but it is
 - a- more in human milk than in animal milk.
 - b- more in animal milk than in human milk.
 - c- Present in human milk not in animal milk.
 - d- Present in animal milk not in human milk.
- 6- Which of the following vitamins acts as antioxidant.
 - a- Vitamin C b- Vitamin A c- Vitamin E d- All of the above
- 7- What is a carbohydrate commonly present in dairy products?
 - a- Maltose b- Isomaltose c- Lactose d- Sucrose



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8- Which of the following vitamin was produced from intestinal flora:

a- Vitamin C b- Vitamin A c- Vitamin E d- Vitamin K

9- All the following are abnormal derivative of hemoglobin, Except:-

a- Carboxhemoglobin.

b- Sulfhemoglobin.

c- Fetal hemoglobin

d- Met-Hemoglobin .

10- Which of the following vitamin is anti-night blindness:-

a- Vitamin C b- Vitamin A c- Vitamin E d- Vitamin K

11- Which of the following is milk proteins?

a- casein b- albumin

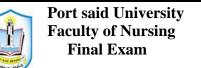
c- globulin d- All of the above.

1	2	3	4	5	6
7	8	9	10	11	

Question (II): (10 Marks)

Put (T) for true statements and (F) for false statements.

- 1- Casein is a phosphoprotein of high biological value.
- 2- Vitamin D-deficiency lead to osteoporosis in adults.
- **3-** Photo-therapy can be used in treatment neonatal jaundice.
- 4- Lactase deficiency lead to diarrhea and abdominal cramps.
- 5- Fructose is the major energy source for spermatozoa in the seminal vesicle.
- 6- All vitamin are insoluble in water and not stored.
- 7- Hematin is hemoglobin without iron.
- 8- Neonatal jaundice is due to low level of UDP-glucuronyl transferase enzyme.



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- 9- Lactose is milk carbohydrate and it is more in human than in animal milk.
- 10- Fructose is the major energy source for spermatozoa in the seminal vesicle.

1	2	3	4	5	6	7	8	9	10

Question (III):

(4 Marks)

Match the number and the lettered items as they best fit together :-

1- Mature milk a- watery fluid that fills the anterior and posterior chamber

of the eye.

2- Witch's milk

b- Vitamin A.

3- Aqueous humor

c- storage in liver and muscle.

4- Night blindness

d- secreted by the mammary gland of the infant during the

first days of life.

e- secreted during the first year of lactation.

1	2	3	4

With my best washes ;;;;;;