



### 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



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.



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

2- Witch's milk

3- Aqueous humor

4- Night blindness

a- watery fluid that fills the anterior and posterior chamber of the eye.

b- Vitamin A.

c- storage in liver and muscle.

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 wishes ;;;;*