

## Exam Booklet

- This exam consists of 4 questions in 5 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*

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### Question

(1):

(10 Marks)

**Select and answer the most appropriate answer or completion :**

**1- Which of the following vitamin is anti-night blindness:-**

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

**2- Which of the following is milk proteins?**

- a- casein
- b- albumin
- c- globulin
- d- All of the above.

**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- All the following are functions of CSF, Except:-**

- a- To provide a fluid cushion to protect the brain and spinal cord from mechanical injury caused by any sudden movement of the body.
- b- To carry nutrients to the brain and spinal cord and remove waste substances.
- c- It stimulate intestinal movement.
- d- To maintain a constant pressure inside the head and around the spinal cord.

**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 produced from intestinal flora:**

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

**9- Which of the following is uncouplers of respiratory chain?**

- a- Ascorbic acid.
- b-  $\gamma$ -tocopherols.
- c- Calcium
- d- All of the above.

**10- Iron does not supply the baby needs, but it is .....**

- a- more in human than in animal milk.
- b- more in animal than in human milk.
- c- Present in human milk not in animal milk.
- d- Present in animal milk not in human milk.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>

**Question**

**(II):**

(5 Marks)

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

- 1- Casein is a phosphoprotein of high biological value.
- 2- Fluoride adding to the blood before measuring blood glucose to activate glycolysis.
- 3- Favism is Chronic hemolytic anemia if ingestion of fava beans.
- 4- The Function of liver glycogen is to maintain the blood glucose level during fasting.
- 5- Fructose is the major energy source for spermatozoa in the seminal vesicle.
- 6- All vitamin are insoluble in water and not stored.

7- Lactic acidosis arise from oxidation of glucose during severe muscle exercises.

8- Deficiencies in glycolysis associated with hemolytic anemia.

9- Lactic acidosis can occur during muscle exercise.

10- Lactose is milk carbohydrate and it is more in human than in animal milk.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>

**Question** **(III):**  
(10 Marks)

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

- |                  |   |
|------------------|---|
| 1- Mature milk   | a- sources of $\text{NADPH}^+ + \text{H}^+$                                   |
| 2- Witch's milk  | b- sources of ATP   |
| 3- Aqueous humor | c- storage in liver and muscle.   |
| 4- Lipids        | d- secreted by the mammary gland of the infant during the first days of life. |
| 5- Glycogen      | e- watery fluid that fills the anterior and posterior chamber of the eye.     |
| 6- HMP shunt     | f- secreted during the first year of lactation                                |

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

(B)

- |                            |                          |
|----------------------------|--------------------------|
| 1- Macrocytic anemia       | a)- Vitamin $\text{K}_2$ |
| 2- Rickets                 | b)- Vitamin A.           |
| 3- Prolonged clotting time | c)- Niacin.              |
| 4- Night blindness         | d)- Vitamin D.           |

**e)- Folic Acid.**

1	2	3	4

*With my best wishes ;;;;*