



Department of physiology
Time allowed: Three hours
Total marks: 30

Physiology
Diploma of Gynecology and Obstetric

Tanta University
Faculty of Medicine
Code: OBST
Date: 26 /8/2021

All the questions must be answered:

1- Discuss : Stages of menstrual cycle. (8 marks)

2- Mention : Signs of ovulation. (7 marks)

All the following must be answered by only one choice (15 marks)

1- Which of the following is function of glucocorticoids:

- a. Decrease blood glucose level.
- b. Decrease plasma level of fatty acids.
- c. Increase number of RBCs.
- d. Decrease blood volume .

2- Which of the following is somatic reaction to pain:

- a. Increase heart rate.
- b. hyperalgesia.
- c. Flexion withdrawal reflex.
- d. Decrease arterial blood pressure.

3- Which of the following could induce hypoxic hypoxia:

- a. Alcohol poisoning.
- b. CO poisoning.
- c. Alveo-capillary block.
- d. Cyanide poisoning.

4- Which of the following contain nicotinic receptors :

- a. Heart.
- b. Lung.
- c. Adrenal medulla.
- d. Salivary glands.

5- Stimulation of muscarinic receptors induce:

- a. Increase heart rate.
- b. Increase gastric evacuation.
- c. Coronary vasodilatation.
- d. Bronchodilatation.

6- Which of the following stimulate secretion of erythropoietin:

- a. Acidosis.
- b. Alkalosis.
- c. Estrogen.
- d. Increase arterial PO₂.

7- Which of the following could increase venous return:

- a. Venodilatation.
- b. Arteriolar dilatation.
- c. Positive intrapleural pressure.
- d. Vasoconstriction to arterioles.

Look to back

- 8- Which of the following induced by stimulation of alpha 1 adrenergic receptors :
- Increase heart rate .
 - Bronchoconstriction.
 - Vasoconstriction to blood vessels.
 - Bronchodilatation.
- 9- Which of the following could stimulate aldosterone secretion:
- Hypervolemia.
 - Hypoproteinemia.
 - Increase blood potassium level.
 - Decrease blood potassium level.
- 10- Which of the following is function of heparin :
- Antiprothrombin.
 - Activate prothrombin.
 - Inhibit activity of platelets.
 - Inhibit activity of vitamin K.
- 11- Which of the following could increase capillary permeability:
- Acidity of blood.
 - Alkalinity of blood.
 - Increase plasma protein level.
 - Increase blood calcium level.
- 12- Increase arterial blood pressure could induce which of the following.
- Increase end diastolic volume.
 - Increase heart rate.
 - Increase secretion of aldosterone.
 - Increase secretion of antidiuretic hormone.
- 13- Which of the following could increase peripheral vascular resistance :
- Anemia.
 - Vasodilatation of arterioles.
 - Increase heart rate.
 - Increase blood viscosity.
- 14- Which of the following could induce metabolic acidosis:
- Restrictive lung disease.
 - Hyperventilation.
 - Hypoventilation.
 - Renal failure.
- 15- Which of the following is CORRECT as regard blood PH:
- Inversely proportionate with arterial HCO_3 .
 - Directly proportionate with arterial PCO_2 .
 - Normally equal 7.1 for arterial blood.
 - Directly proportionate with arterial HCO_3 .



Department of physiology
Time allowed: Three hours
Total marks: 60

Physiology
Diploma Dermatology

Tanta University
Faculty of Medicine
Code: DERMVEN 8001
Date: 22/8/2021

All the questions must be answered:

- 1- Discuss : Effect of endocrinal disorders on the skin. (15 marks)
- 2- State : Factors affecting spermatogenesis. (15 marks)
- 3- Mention: Types and mechanisms of cutaneous hyperalgesia. (15 marks)

All the following must be answered by only one choice (15 marks)

1- Pain sensation is characterized by:

- | | |
|-------------------------------|-------------------------------------------|
| a. Obey Muller law. | c. Its receptors are very slowly adapted. |
| b. Has no specific receptors. | d. Its receptors are rapidly adapted. |

2- Protopathic sensation is characterized by:

- | | |
|----------------------------------|---------------------------------|
| a. Perceived by cerebral cortex. | c. Perceived by thalamus. |
| b. well localized. | d. Need low threshold stimulus. |

3- Locality of sensation is identified by:

- | | |
|------------------------------|------------------------|
| a. Muller law. | c. Law of projection . |
| b. Recruitment of receptors. | d. Weber Fechner law. |

4- Pain inhibitory complex located in :

- a. Brain stem.
- b. Sensory cortex.
- c. Dorsal horn of the spinal cord.
- d. Ventral horn of the spinal cord.

5- Cutaneous vasodilatation is induced by:

- a. Vagal stimulation.
- b. Decrease sympathetic tone to cutaneous blood vessels.
- c. Increase sympathetic tone to cutaneous blood vessels.
- d. Increase parasympathetic tone to cutaneous blood vessels.

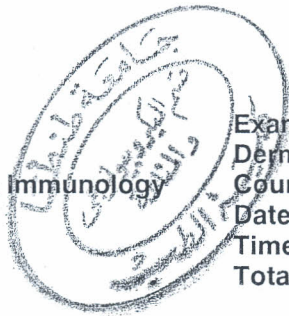
6- Blood flow to the skin under comfortable temperature normally equal:

- a. 150 ml/min.
- b. 500 ml/min.
- c. 50 ml/min.
- d. 5 liter/min.

Look to back



Tanta University
Faculty of Medicine
Department of Microbiology & Immunology



Examination for Diploma Degree in
Dermatology
Course Title: Microbiology and Immunology
Date: 22 / 08 / 2021
Time Allowed: 2 hours
Total Assessment Marks: 60marks

All Question to be answered:

1-As regard Type I Hypersensitivity Discuss the followings:

A- Mechanism (4Marks)

B-Diagnosis and treatment (8Marks)

2-Mention laboratory diagnosis of HIV (12Marks)

3-Give short account on:

A- Human papilloma Virus (6marks)

C-Treponemal Antigen Tests (6marks)

4- Mention the mechanisms of action of antimicrobial agents. (12 Marks)

5-Enumerate sexually transmitted disease and discuss diagnosis of one bacterial cause of them
(12Marks)

Best Wishes

Biochemistry Exam. For Dermatology Diploma

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I) Write on the following:

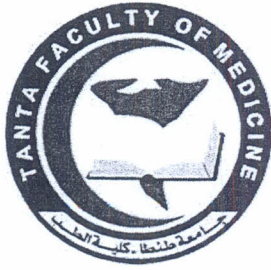
- a. Sources, functions and deficiency of vitamin C.
- b. Mechanism of action of testosterone.

II) Give an account on:

- a. Types of collagen and structure of its basic unit.
- b. Discuss melanine biosynthesis and its metabolic defect.
- c. Structure and function of IgM.

Good Luck

سيعد الامتحان الشفوي بمشيئة الله بعد الامتحان النظري مباشرة في قسم
الكيمياء الحيوية الطبية مع ضرورة التزام الطالب بارتداء الكمامة



Tanta University
Faculty of Medicine
Dermatology Department

22/8/2021

Diploma exam: semester 1

Time allowed: 3 hours

All Questions must be answered:

- 1- Discuss anthropophylic dermatophytes regarding: (20 marks)
 - a) The types
 - b) The skin lesions caused by them
 - c) The laboratory investigations
 - d) The microscopic and macroscopic features
- 2- Describe the basic structure of fungi. (10 marks)
- 3- Mention in details types of sexual spores. (10 marks)
- 4- Illustrate skin diseases caused by candida and methods of diagnosis. (20 marks)

Head of Department
Prof.Dr. Noha Doghaim

Good luck



Department of physiology

Time allowed: Three hours

Total marks: 45

Physiology

Diploma of Internal Medicine

Tanta University
Faculty of Medicine

Code: MED 8002

Date: 22 /8/ 2021

All the questions must be answered:

- 1- Discuss : Mechanism of cardiac reseve. (10 marks)
- 2- Discuss : Causes and manifestations of obstructive jaundice . (10 marks)
- 3- Mention functions of : a. Antidiuretic hormone. (5 marks)
b. Plasma proteins. (5 marks)

All the following must be answered by only one choice (15 marks)

- 1- Which of the following is function of glucocorticoids:
 - a. Decrease blood glucose level.
 - b. Decrease plasma level of fatty acids.
 - c. Increase number of RBCs.
 - d. Decrease blood volume .
- 2- Which of the following is somatic reaction to pain:
 - a. Increase heart rate.
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- 4- Which of the following contain nicotinic receptors :
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 - b. Lung.
 - c. Adrenal medulla.
 - d. Salivary glands.
- 5- Stimulation of muscarinic receptors induce:
 - a. Increase heart rate.
 - b. Increase gastric evacuation.
 - c. Coronary vasodilatation.
 - d. Bronchodilatation.
- 6- Which of the following stimulate secretion of erythropoietin:
 - a. Acidosis.
 - b. Alkalosis.
 - c. Estrogen.
 - d. Increase arterial PO₂.
- 7- Which of the following could increase venous return:
 - a. Venodilatation.
 - b. Arteriolar dilatation.
 - c. Positive intrapleural pressure.
 - d. Vasoconstriction to arterioles.

Look to back

**Tanta University
Faculty of Medicine
Department Of Medical Biochemistry**

**First part examination (Medical Biochemistry) for Diploma degree
in Internal Medicine**

Date: 22/8/2021

All questions should be answered

Write short notes on the following:

1. Gene Therapy
2. Biochemical aspects of obesity
3. Jaundice with highlighting the biochemical changes occur in each type.

Good luck

تنبيه هام : سوف يعقد اختبار الشفوى بالقسم يوم الاربعاء الموافق 2021/9/1.



Department of physiology

Time allowed: Three hours

Total marks: 30

Physiology
Diploma Tropical

Tanta University
Faculty of Medicine
Code: TROP 8001
Date: 17 /8/ 2021

All the questions must be answered:

1. **Discuss : Factors affecting gastric evacuation. (5 marks)**
2. **Mention : Functions of plasma proteins. (5 marks)**
3. **State : Functions of antidiuretic hormone. (5 marks)**

All the following must be answered by only one choice (15 marks)

1- Stimulation to muscarinic receptors induce

- | | |
|-------------------------|-------------------------|
| a. Increase heart rate. | c. Decrease heart rate. |
| b. Bronchodilatation. | d. Pupil dilatation. |

2- Non pitting oedema is caused by:

- a. Increase capillary hydrostatic pressure.
- b. Hypoproteinemia.
- c. Depressed cellular metabolic activity.
- d. Obstruction of lymphatics.

3- Pressure in large veins normally equal :

- | | |
|---------------|-------------|
| a. 50 mmHg. | c. 5 mmHg |
| b. 120 mmHg . | d. 30 mmHg. |

4- Extrinsic mechanism of blood coagulation start by:

- | | |
|--------------------------------|------------------------------|
| a. Contact with rough surface. | c. Injury to blood vessels |
| b. Activation to factor X . | d. Activation to factor XII. |

5- Function of vitamin D is:

- a. Increase iron absorption from small intestine.
- b. Increase calcium absorption from small intestine.
- c. Inhibit calcium absorption from kidney.
- d. Inhibit phosphate absorption from kidney.

6- Secretion of erythropoietin is stimulated by:

- | | | | |
|--------------|--------------|--------------|------------------|
| a. Estrogen. | b. Androgen. | c. Acidosis. | d. Parathormone. |
|--------------|--------------|--------------|------------------|

7- Increase stroke volume could induce:

- | | |
|--------------------------------------|--------------------------------------|
| a. Increase peripheral resistance. | c. Decrease systolic blood pressure. |
| b. Increase systolic blood pressure. | d. Decrease peripheral resistance. |

Look to back

Tanta University
Faculty of Medicine
Medical Biochemistry Department

Date: 17-8 - 2021

Biochemistry Exam. For Tropical Medicine Diploma

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Write on the following:

1. Rickets.
2. Structural differences between **Sickle cell hemoglobin** and **normal hemoglobin**.
3. Hemolytic jaundice.

Good Luck

سيعد امتحان الشفوى بمشيئة الله بمراجعة القسم مع ضرورة التزام الطالب بارتداء الكمامة