



Department of physiology
Time allowed: Three hours
Total marks: 45

Physiology
MSC Physical Medicine

Tanta University
Faculty of Medicine
Code: PRR 8001
Date: 25/3/2021

All the questions must be answered:

- 1- Discuss : Types and manifestations of ataxia. (10 marks)
- 2- State: Mechanism of neuromuscular transmission. (10 marks)
- 3-Discuss : Physiological changes occurring with muscular exercise. (10 marks)

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

1- Edema is increased by:

- a. Decrease blood volume.
- b. Increase osmotic pressure of plasma protein.
- c. Increase capillary hydrostatic pressure.
- d. Decrease capillary hydrostatic pressure.

2- Peripheral chemoreceptors are mainly stimulated by:

- a. Alkalosis.
- b. Increase arterial pO₂.
- c. Decrease arterial pO₂.
- d. Increase arterial blood pressure.

3- Obstructive lung disease could induce:

- a. Metabolic acidosis.
- b. Metabolic alkalosis.
- c. Respiratory acidosis.
- d. Respiratory alkalosis.

4- Intrinsic mechanism of blood coagulation start by activation of factor :

- a. VIII.
- b. X.
- c. XII.
- d. III.

5- Aldosterone could decrease blood level of:

- a. Sodium.
- b. Potassium.
- c. Calcium.
- d. Glucose.

6- Stimulation of beta 1 adrenergic receptors could induce:

- a. Decrease heart rate.
- b. Increase heart rate.
- c. Miosis.
- d. Bronchoconstriction.

7- Irreversible shock induce:

- a. Increase sympathetic activity.
- b. Increase capillary permeability.
- c. Increase cardiac output.
- d. Decrease capillary permeability.

Look to back

- 8- Which of the following is characteristic for Cushing syndrome :
- Hypoglycemia .
 - Hypotension.
 - Abnormal fat deposition.
 - Bradycardia.
- 9- Which of the following is function of Vitamin K :
- Is anticoagulant.
 - Induce vascular spasm.
 - Help formation of prothrombin.
 - Inhibit formation of prothrombin.
- 10- Which of the following is calcium lowering hormone :
- Calcitonin.
 - Thyroxine.
 - Insulin.
 - Parathormone.
- 11- Vasoconstriction of arterioles induce:
- Increase peripheral resistance.
 - Decrease peripheral resistance.
 - Increase heart rate.
 - Decrease heart rate.
- 12- Hemophilia is caused by deficiency of coagulation factor.
- Factor VIII
 - Factor V
 - Factor VII
 - Factor III
- 13- Which of the following is function of insulin :
- Rise blood K^+ level.
 - Exert lipolysis.
 - Had protein catabolic effect.
 - Lower blood K^+ level.
- 14- Which of the following could induce respiratory alkalosis:
- Excess renal HCO_3 reabsorption.
 - Respiratory depression.
 - Obstructive lung disease.
 - Hyperventilation.
- 15- Metabolic acidosis differ from respiratory acidosis in that there is:
- Increase PCO_2 and HCO_3 .
 - Increase HCO_3 .
 - Increase PCO_2 .
 - Normal or low PCO_2 .

إمتحان الشفهي يوم الأربعاء 31/3/2021 في قسم الفسيولوجي التاسعة صباحا

Tanta University
Faculty of Medicine
Human Anatomy & Embryology Dep.
Date: 25 /03 /2021
Number of Questions: 5 Total: 60 Marks

Master of Physical Medicine

Time Allowed: 3 Hours



PHYSICAL MEDICINE

All questions to be answered

- 1- **DISCUSS** the movements occur in the knee joint and mention the muscles responsible for each movement and their nerve supply. (12 marks)
- 2- **COMPARE** between the shoulder and hip joints as regards the type, articular surfaces and stability factors with explanation. (12 marks)
- 3- **ENUMERATE** the functions of the vertebral column and discuss the development of vertebral curvatures. (12 marks)
- 4- **DESCRIBE** the deep nuclei and branches of the facial nerve and then give a short note about facial nerve lesion. (12 marks)
- 5- **DISCUSS** the functional areas of the cerebral hemisphere. (12 marks)

END OF THE EXAM

Oral Examination:

On 4/ 4/ 2021 at 10 o'clock in the Anatomy Department (Second floor)

WITH MY BEST WISHES

Committee of the exam: *Prof. Dr. Amal Halawa Prof. Dr. Maysa Fahmy
Assis. Prof. Dr. Rabab Amer*