





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

Physiology  
MSC of Neuropsychiatry

Tanta University  
Faculty of Medicine  
Code: NEUROPSCH 8002  
Date: 25/3/ 2021

**All the questions must be answered:**

- 1- Differentiate between pyramidal and extrapyramidal tracts. (10 marks)
- 2- State : Manifestations of neocerebellar syndrome. (10 marks)
- 3- State: a) Function of somatic sensory area I ( 3,1,2). (5 marks)  
b) Somatic reaction to pain. (5 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 pO<sub>2</sub>.
  - c. Decrease arterial pO<sub>2</sub>.
  - 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 :**

- a. Hypoglycemia .
- b. Hypotension.
- c. Abnormal fat deposition.
- d. Bradycardia.

**9- Which of the following is function of Vitamin K :**

- a. Is anticoagulant.
- b. Induce vascular spasm.
- C. Help formation of prothrombin.
- D. Inhibit formation of prothrombin.

**10- Which of the following is calcium lowering hormone :**

- a. Calcitonin.
- b. Thyroxine.
- c. Insulin.
- d. Parathormone.

**11- Vasoconstriction of arterioles induce:**

- a. Increase peripheral resistance.
- b. Decrease peripheral resistance.
- c. Increase heart rate.
- d. Decrease heart rate.

**12- Hemophilia is caused by deficiency of coagulation factor.**

- a. Factor VIII
- b. Factor V
- c. Factor VII
- d. Factor III

**13- Which of the following is function of insulin :**

- a. Rise blood  $K^+$  level.
- b. Exert lipolysis.
- c. Had protein catabolic effect.
- d. Lower blood  $K^+$  level.

**14- Which of the following could induce respiratory alkalosis:**

- a. Excess renal  $HCO_3$  reabsorption.
- b. Respiratory depression.
- c. Obstructive lung disease.
- d. Hyperventilation.

**15- Metabolic acidosis differ from respiratory acidosis in that there is:**

- a. Increase  $PCO_2$  and  $HCO_3$ .
- b. Increase  $HCO_3$ .
- c. Increase  $PCO_2$ .
- d. Normal or low  $PCO_2$ .

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