

Department of physiology Time allowed: Three hours

Total marks: 30

Physiology MSC of Neurosurgery Tanta University
Faculty of Medicine
Code: NEUROS 8002

Date: 19 /8/ 2021

All the questions must be answered:

1. State: Functions of thalamus. (5 marks)

2. Mention: Causes of headache. (5 marks)

3. State: Functions of vestibulocerebellum. (5 marks)

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

1. Which of the following is function of insulin:

a. Stimulate lipolysis.

c. Promote protein anabolism.

b. Promote protein catabolism.

d. Increase blood potassium level.

2. Hemophilia is characterized by:

a. Prolonged bleeding time.

c. Prolonged coagulation time.

b. Decrease number of platelets.

d. Abnormal platelet function.

3. Which of the following contain muscarinic recptors:

a. Adrenal medulla.

c. Eccrine sweat gland

b. Autonomic ganglia.

d. Motor end plate.

4. Stimulation to beta 2 adrenergic receptors induce :

a. Bronchoconstriction.

c. Coronary vasodilatation

b. Increase gastric secretion.

d. pupil constriction.

5. Cyanotic threshold normally equal:

a. 5 gm % arterial blood.

b. 5 gm % capillary blood.

c. 5 mg % arterial blood.

d. 5 mg % capillary blood.

6. Visceral pain is characterized by:

a. Never referred.

c. Well localized

b. Rigidity of overlying skeletal muscle.

d. Induce flexion withdrawal reflex.

7. Venous return is decreased by:

a. Vasodilatation of arterioles.

c. Increase negative intrapleural pressure.

b. Venodilatation.

d. Venoconstriction

Look to back

8- Which of the following induced by stimulation of alpha 1 adrenergic receptors :

- a. Increase heart rate.
- b. Bronchoconstriction.
- c. Vasoconstriction to blood vessels.
- d. Bronchodilatation.

9- Which of the following could stimulate aldosterone secretion:

a. Hypervolemia.

c. Increase blood potassium level.

b. Hypoproteinemia.

d. Decrease blood potassium level.

10- Which of the following is function of heparin:

- a. Antiprothrombin.
- b. Activate prothrombin.
- c. Inhibit activity of platelets.
- d. Inhibit activity of vitamin K.

11- Which of the following could increase capillary permeability:

- a. Acidity of blood.
- b. Alkalinity of blood.
- c. Increase plasma protein level.
- d. Increase blood calcium level.

12- Increase arterial blood pressure could induce which of the following.

- a. Increase end diastolic volume.
- c. Increase secretion of aldosterone.

b. Increase heart rate

d. Increase secretion of antidiuretic hormone.

13- Which of the following could increase peripheral vascular resistance:

a. Anemia.

- c. Increase heart rate.
- b. Vasodilatation of arterioles.
- d. Increase blood viscosity.

14- Which of the following could induce metabolic acidosis:

- a. Restrictive lung disease.
- b. Hyperventilation.
- c. Hypoventilation.
- d. Renal failure.

15- Which of the following is CORRECT as regard blood PH:

- a. Inversely proportionate with arterial HCO₃.
- b. Directly proportionate with arterial PCO₂.
- c. Normally equal 7.1 for arterial blood.
- d. Directly proportionate with arterial HCO_3 .

إمتحان الشفهي يوم السبت 2021/8/28 في قسم الفسيولوجي التاسعة صباحا