



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

Physiology
MSC of Cardiology

Tanta University
Faculty of Medicine
Code: CARD 8002
Date: 17 / 8 /2021

All the questions must be answered:

1- Discuss: Mechanism of cardiac reserve . (10 marks)

2- State : Factors affecting refractory period of the heart . (5marks)

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

1- Stimulation to muscarinic receptors induce

- a. Increase heart rate.
- b. Bronchodilatation.
- c. Decrease heart rate.
- 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.
- b. 120 mmHg .
- c. 5 mmHg
- d. 30 mmHg.

4- Extrinsic mechanism of blood coagulation start by:

- a. Contact with rough surface.
- b. Activation to factor X .
- c. Injury to blood vessels
- 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.
- b. Increase systolic blood pressure.
- c. Decrease systolic blood pressure.
- d. Decrease peripheral resistance.

Look to back



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

Physiology
MSC 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 reserve. (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.
 - 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 PO_2 .
- 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