

Exam of Medical Biochemistry for Diploma Degree of Cardiology (first part)

A- Choose the correct answer:

1- The lipoprotein associated with activation of LCAT is (A) HDL (B) LDL (C) VLDL (D) IDL	2- The apolipoprotein which acts as ligand for LDL receptor is (A) B-48 (B) B-100 (C) A (D) C
3- Nascent chylomicron receives apolipoproteins C and E from (A) VLDL remnant (B) VLDL (C) LDL (D) HDL	4- Cholesterol is present in all the following Except (A) Milk (B) Fish (C) Egg white (D) Egg yolk
5- One of the following is true about type IIa hypercholesterolemia (A) It is due to lipoprotein lipase deficiency (B) Autosomal recessive disorder (C) It is due to LDL-R deficiency (D) It is due to Apo C-II deficiency	6- In early stages of myocardial ischemia the most sensitive indicator is the measurement of the activity of (A) CPK (B) SGPT (C) SGOT (D) LDH

B- Give an account on the following:

- 1- Factors controlling blood cholesterol concentration?**
- 2- Lipoprotein(a) [Lp(a)]?**
- 3- Advantages and disadvantages of cardiac troponin assay?**

Good luck and best wishes

الامتحان الشفوي يوم السبت الموافق 2022\2\19

الساعة الواحدة بالقسم مع الالتزام بكافة الاجراءات الاحترازية



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

Physiology
Diploma of Cardiology

Tanta University
Faculty of Medicine
Code: CARD 8002
Date: 19/ 2 /2022

All the questions must be answered:

1- Discuss: Pathophysiological changes occurring with heart failure . (10 marks)

2- State : Factors affecting pulse pressure . (5marks)

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

1- During rest stroke volume normally equal :

- a. 40 ml.
- b. 20 ml.
- c. 30 ml.
- d. 80 ml.

2- Histotoxic hypoxia is characterized by :

- a. Normal arterial oxygen tension and oxygen content.
- b. Decrease arterial oxygen tension and oxygen content.
- c. Increase arterial oxygen tension and oxygen content.
- d. Caused by CO poisoning.

3- Which of the following decrease capillary permeability :

- a. Acidosis.
- b. Hypoxia .
- c. Alkali.
- d. Capillary dilatation.

4- Which of the following is function of vitamin K:

- a. Antiprothrombin.
- b. Antithrombin .
- c. Help prothrombin formation.
- d. Activation to factor XII.

5- Stimulation of nicotinic receptors induce:

- a. Pupil constriction.
- b. Increase catecholamine secretion.
- c. Decrease heart rate.
- d. Decrease cardiac contraction.

6- Physiological response to cold environment include:

- a. Cutaneous vasodilataion.
- b. Increase secretion of thyroxine.
- c. Decrease muscle tone
- d. increase aldosterone secretion.

7- Blood group O is characterized by :

- a. Presence of A and B agglutinogen on RBCs.
- b. Absence of A and B agglutinogen on RBCs.
- c. Universal recipient.
- d. Absence of agglutinin in plasma.

Look to back

8- Pain sensation is characterized by which of the following :

- a. Its receptors are rapidly adapted .
- b. Its receptors are moderately adapted.
- c. Its receptors are free nerve endings.
- d. Carried by dorsal column of the spinal cord.

9- Glucocorticoids could decrease blood level of :

- a. Free fatty acids.
- b. Glucose.
- c. Eosinophils.
- d. RBCs.

10- Which of the following is CORRECT regarding referred pain :

- a. Could explained by dorsal root branching mechanism.
- b. Could explained by convergence facilitation mechanism.
- c. Never occur with visceral pain.
- d. Always occur with cutaneous pain.

11- Which of the following could increase heart rate:

- a. Stimulation to beta 1 adrenergic receptors.
- b. Venodilatation.
- c. Stimulation to muscarinic receptors.
- d. Stimulation to arterial baroreceptors.

12- Intrinsic mechanism of blood coagulation is initiated by:

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

13- Vasodilatation of arterioles could induce :

- a. Increase peripheral vascular resistance.
- b. Decrease venous return.
- c. Decrease central venous pressure.
- d. Decrease peripheral vascular resistance .

14- Which of the following could induce respiratory alkalosis:

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

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

- a. Inversely proportionate with arterial HCO_3^- .
- b. Directly proportionate with arterial PCO_2 .
- c. Directly proportionate with arterial HCO_3^- .
- d. Normally equal 7.1 for arterial blood.

إمتحان الشفهي يوم الثلاثاء 2022/3/ 1 في قسم الفسيولوجي التاسعة صباحا

Tanta University

21/2/2022

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

(List 2013)

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Radiological anatomy & technology examination

Diploma & master degrees (total marks = 90)

All questions must be attempted (each question = 10 marks)

جميع الاسئلة اجبارية

- 1) Plain X-ray positions used for examination of upper three cervical vertebrae. (10 marks)
- 2) Plain X-ray oblique views of the chest. (10 marks)
- 3) Plain X-ray positions used for examination of sacroiliac joint. (10 marks)
- 4) Technique of Double contrast barium enema. (10 marks)
- 5) Radiological anatomy of upper limb venous system, imaging of a case of deep vein thrombosis. (10 marks).
- 6) Technique and contrast media of triphasic CT of liver. (10 marks)
- 7) Radiological anatomy of male urethra and technique of micturating cysto-urethrography. (10 marks)
- 8) Plain X-ray positions used for mammography.(10 marks)
- 9) Plain X-ray positions used for examination of the ankle joint. (10 marks)

Good Luck

امتحان العملى والشفوى يوم الاثنين الموافق 2022/2/28 الساعة الثامنة صباحا بالعياده الشامله

Tanta University

23/2/2022

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

(List 2013)

=====

Radiobiology & Istotopes examination == Master & Diploma
degrees(45 degree)

All questions must be attempted

جميع الاسئلة اجبارية

- 1- Give an account on the response of irradiated cells. (5 marks)
- 2- Give an account on stochastic and deterministic (non- stochastic) effect. (5 marks)
- 3- Discuss acute radiation syndrome. (5 marks)
- 4- Bone scan: indication, procdure and interpretation. (5 marks)
- 5- Indication , procdure and interpretation of renal scintigraphy. (5 marks)
- 6- Discuss scintigraphic anatomy of thyroid gland, type of nucleotides used in its examination & mentioned causes of non visalized thyroid gland on thyroid scan. (10 marks)
- 7- Chracters of ideal radioactive nucleids.(2.5)
- 8- Benign non physiological FDG uptake. (2.5 marks)
- 9- Radio-isotopes imaging in pulmonary embolism (istopes used, methods, image interpretation). (5 marks)

Good Luck

Tanta University

23/2/2022

Faculty of Medicine

Time allowed : 3 hours

Radiodiagnosis Department

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21/2/2022
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امتحان العملى والشفوى يوم الاثنين الموافق 2022/2/28 الساعه الثامنه صباحا بالعياده الشامله