Date:18/2/2018

Examination For Diploma Cardiology

Term: Final

Course Title: Physiology Time Allowed: Three Hours

All questions are to be answered:

1-Discuss arterial blood pressure and pathophysiological basis of hypertension.

(10 marks)

2- Cardiac reserve and its mechanisms.

(10 marks)

3-Choose the most probable answer: (10 marks)

1-The active form of vitamin D is:

- a)1,25-dihydroxycholicalciferol
- b)Is formed in the absence of parathormone
- c)Decrease the absorption of calcium from the

intestine

d)Can be formed by the liver

3-The heart rate is regulated by:

- a)Impulses from the baroreceptors
- b)Changes in the arterial blood pressure
- c)O2 and CO2 pressure
- d)All of the above

5-Prolonged coagulation time in obstructive jaundice is due to:

- a)Deficiency of bile pigments
- b)Decrease the formation of plasma protein
- c)Vitamin K deficiency
- d)iron deficiency

7-Absolute refractory period is shorted by the following Except:

- a)Increase of the temperature
- b)Beta blockers
- c)Sympathetic stimulation
- d)Increase the heart rate

9-Gastric empting is delayed by:

- a) Vagal stimulation
- b)Excess fat and hypertonic sugar solutions in the duodenum
- c)Increase of the fluidity of gastric chyme
- d)Small size diet

2-Infantile thyroid deficiency is characterized by all of the following Except:

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Faculty Of Medicine Department Of Physiology

Course Code: CARD 7001

Total Assessment Marks: 30

- a)Retarded growth and delayed walking
- b)Protruded tongue and abdomen
- c)Moon face and buffalo hump
- d)A low basal metabolic rare and inability to tolerate cold whether

4-The systolic blood pressure of the left ventricle

is:

- a)130mmHg
- b)100mmHg
- c)15mmHg
- d)80 mmHg

6-All the following organs share in vitamin D formation Except:

- a)The lung
- b)The liver
- c)The kidney
- d)The skin

8- Atropine is acting as:

- a)Muscarinic blocker
- h)Nicotinic blocker
- c)Neuromuscular blocker
- d)None of the above

10-Cortisone increases the blood glucose level

by:

- a) Increasing the gluconeogenesis
- b)Exerts insulin like effect on the skeletal muscles
- c)Decrease glucose absorption form the intestine
- d)Produces osteoporosis

11- Platelets deficiency resulted in:

- a) Prolonged coagulation time
- b)Purpura
- c)Haemophilia
- d) Anemia

13--The following hormones elevate the arterial blood pressure Except:

- a) Vasopressin(ADH)
- b)Angiotensin II
- c)Aldosterone
- d)Histamine

15-Hyperalgesia

- a) It is a physiological condition
- b)Primary hyperalgesia is due to lesion inside the brain
- c)The pain threshold is lowered in the primary
- hyperalgesia
- d)Occurs in the healthy skin

17-Keeping internal environment constant is called:

- a-Thermostasis
- b-Hemostasis
- c- Homeostasis
- d- Pinocytosis

19- Caynosis is present in:

- a)All types of anemia
- b)Histotoxic hypoxia
- c)Congestive heart failure
- d)Met-hemoglobinemia

12-Pain control mechanism release the following hormones Except:

- a)Beta endorphin
- b)Enkephalin
- c)Serotonin
- d)Bradykinin

14-Hyperglycemia occurs in all the following Except:

- a)Thyrotoxicosis
- b)Diabetes insipidus
- c)Acromegaly
- d)Cushing's Syndrome

16-The following factors are essential for erythropoeisis:

- a)Iron
- B)Vitamin B₁₂
- c)Healthy bone marrow
- d)All of the above

18-Conduction velocity of Purkinje fibers is:

- a-5 meters /minute
- b-5 meters/second
- c-5 centimeter /minute
- d-3 meter/second

20-Atrial flutter is:

- a-Physiological condition
- b-The atrial contraction is not present
- c-Rhythmic heart block 2:1 rhythm is present
- d-Atrial rate exceed 400 beat/ minute

ألامتحان الشفوي يوم الأربعاء ٢٠١٨/٢/٢٨ الساعة الثامنة والنصف صباحا بقسم الفسيولوجي

Tanta university
Faculty of medicine
Department of medical biochemistry

1st Part Medical Biochemistry Diploma Cardiology Exam

Date: 18/2/2018

- 1- Give an account on cholesterol biosynthesis with reference to the rate limiting step and drug affecting it?
- 2-Discuss the clinical significance of CPK and LDH isoenzymes as cardiac biomarkers?

Good luck

سيتم انعقاد الامتحان الشفوي بمشيئة الله يوم الارعاء الموافق 2018/2/28 الساعة العاشرة بالقسم