

Biochemistry Exam. for MSc of Tropical Medicine.

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**Give an account on the following:**

- 1) Hemoglobin catabolism.
- 2) Role of adrenalin on blood glucose level.
- 3) Activation and functions of vitamin D.

**Good Luck**

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Date: 18/2/2018  
Examination For MSC Tropical medicine  
Term: Final  
Course Title: Physiology  
Time Allowed: Three Hours

Tanta University  
Faculty Of Medicine  
Department Of Physiology  
Course Code: TROP 8001  
Total Assessment Marks: 30

All questions are to be answered:

- 1-Discuss hypoxia and cyanosis. (10 marks)  
2- Give short account on jaundice. (10 marks)  
3 -Choose the most probable answer: (10 marks)

**1-Pernicious anemia is due to:**

- a) Intrinsic factor deficiency
- b) Folic acid deficiency
- c) Vitamin K deficiency
- d) Iron deficiency

**3-Intra cranial headache may be produced by all of the following Except:**

- a) Meningeal inflammation or irritation
- b) Inflammation of the nasal sinuses
- c) Dilatation of cerebral blood vessels
- d) Brain tumors

**5- Platelets deficiency resulted in:**

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

**7- Atropine is acting as:**

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

**9-Pain control mechanism release the following hormones Except:**

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

**13-The heart rate is regulated by:**

- a) Impulses from the baroreceptors
- b) Changes in the arterial blood pressure
- c) O<sub>2</sub> and CO<sub>2</sub> pressure
- d) All of the above

**2-The factors that can reduce the vital capacity are:**

- a) Weakness of the inspiratory muscles
- b) Lung fibrosis
- c) Congestive heart failure
- d) All of the above

**4-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

**6-calcitonin hormone:**

- a) Lowers the basal metabolic rate
- b) Lowers the blood calcium level
- c) Is secreted from the parathyroid gland
- d) Is released when the blood phosphate level rises

**8-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

**10-The most important organ supplied only by sympathetic system is:**

- a) Smooth muscles of the bronchi
- b) Gastric secretory cells
- c) A-V node
- d) Ventricles of the heart

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**15- Cyanosis is present in:**

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

**17- Homeostasis is:**

- a) Keeping the internal environment constant
- b) Stoppage of bleeding from small blood vessel
- c) Keeping the external environment constant
- d) All of the above

**19- Cholinergic receptors present in:**

- a) Motor end plate
- b) Autonomic ganglia
- c) Sympathetic to sweat glands
- d) All of the above

**16- The main stimulus of the peripheral chemoreceptors is:**

- a) Increase of hydrogen ion concentration
- b) Oxygen lack
- c) Decrease of CO<sub>2</sub>
- d) Decrease of hydrogen ion concentration

**18- The maximum resistance in the vascular system is present in:**

- a) Aorta
- b) Arteries
- c) Arterioles
- d) Capillaries

**20- The systolic blood pressure of the left ventricle is about:**

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

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