

**Date:18/2/2017**

**Examination For MSC Anesthesia**

**Term: Final**

**Course title: Physiology**

**Time Allowed: Three Hours**

**All questions are to be answered:**

1-Discuss hypoxia and cyanosis. (20 marks)

2- Give a short account on arterial blood pressure and pathophysiology of hypertension. (15 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-Intracranial 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 endorphins
- b)Enkephalins
- c)Serotonin
- d)Bradykinin

**11-The most important measure should be done before blood transfusion:**

- a)ESR
- b)HB content
- c)RBCs count
- d)Cross matching test

**Tanta University**

**Faculty Of Medicine**

**Department Of Physiology**

**Course Code: ANES 8001**

**Total Assessment Marks: 45**

**2-The factors that 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- Cretinism is:**

- a)Hyperthyroidism in adult.
- b)Hyperthyroidism in children.
- c)Hypothyroidism in infancy.
- d)Hypothyroidism in adult.

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

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

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

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

14-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

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

No	A	B	C	D	No	A	B	C	D
1					11				
2					12				
3					13				
4					14				
5					15				
6					16				
7					17				
8					18				
9					19				
10					20				

Answer of MCQ at the table

ملحوظة:

26/2/2017 الامتحان الشفهي

بقسم الفسيولوجي الثامنة صباحا

اجابة الأسئلة الاختيارية بالجدول و

يدبس بكتابة الإجابة

Tanta University  
Faculty of Medicine  
Human Anatomy & Embryology Dep.  
18/2/2017  
Time Allowed: 3 Hours

Master of Science in Anesthesiology &  
surgical intensive care  
Anatomy Examination  
Number of Questions: 4  
Total: 45 Marks



## **ANESTHESIOLOGY & SURGICAL INTENSIVE CARE**

**All questions to be answered**

**Illustrate your answer with diagram whenever possible:**

1. **A. Enumerate** the cerebral arteries and **mention** their origin and areas supplied by them. (12 marks)  
**B. Mention** the functions of cerebrospinal fluid. (6 marks)
2. **Enumerate** the muscles of the larynx with their actions and nerve supply. (9 marks)
3. **Enumerate** the motor cranial nerves and their branches. (11 marks)
4. **Describe the** origin, insertion and nerve supply of the diaphragm and **mention** its major openings with their contents. (7 marks)

**END OF THE EXAM**

**Oral Examination:**

**On Sunday 26/ 2/ 2017 at 10 o'clock in the Anatomy Department (Second floor)**

**WITH MY BEST WISHES**

**Chairman of Department: Prof. Dr. Mona Zoair**