



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

Physiology
MSC of Anesthesia

Tanta University
Faculty of Medicine
Code: ANES8001
Date: 25/3/2021

All the questions must be answered:

- 1- Mention : Types of dead space , its significance and factors affecting it. (10 marks)
- 2- Discuss : Factors affecting passive diffusion of gases across pulmonary membrane. (10 marks)
- 3- a) State : Factors shifting oxygen dissociation curve to the left. (5 marks)
b) Mention : Causes and character of hypoxic hypoxia. (5 marks)

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

- 1- Edema is increased by:
 - a. Decrease blood volume.
 - b. Increase osmotic pressure of plasma protein.
 - c. Increase capillary hydrostatic pressure.
 - d. Decrease capillary hydrostatic pressure .
- 2- Peripheral chemoreceptors are mainly stimulated by:
 - a. Alkalosis.
 - b. Increase arterial pO_2 .
 - c. Decrease arterial pO_2 .
 - d. Increase arterial blood pressure.
- 3- Obstructive lung disease could induce:
 - a. Metabolic acidosis.
 - b. Metabolic alkalosis.
 - c. Respiratory acidosis.
 - d. Respiratory alkalosis.
- 4- Intrinsic mechanism of blood coagulation start by activation of factor :
 - a. VIII.
 - b. X.
 - c. XII.
 - d. III.
- 5- Aldosterone could decrease blood level of:
 - a. Sodium.
 - b. Potassium.
 - c. Calcium.
 - d. Glucose.
- 6- Stimulation of beta 1 adrenergic receptors could induce:
 - a. Decrease heart rate.
 - b. Increase heart rate.
 - c. Miosis.
 - d. Bronchoconstriction.
- 7- Irreversible shock induce:
 - a. Increase sympathetic activity.
 - b. Increase capillary permeability.
 - c. Increase cardiac output.
 - d. Decrease capillary permeability.

Look to back

Tanta University
Faculty of Medicine
Anesthesia, SICU & Pain
Medicine Dep.

Date: 25 / 3 / 2021

Exam: Master Degree -1st Part:

Pharmacology

No. of Questions: 5

Times allowed: 1 hour / 3 hours (Total)

Total marks: 15



What are the alpha₂ agonists? Discuss the pharmacodynamics & anesthetic uses of alpha₂ agonists? (2.5marks)

What are the differentiating features between depolarising & non-depolarising blockade? Dose, indications, & side effects of each name of muscle relaxant mentioned (Suxamethonium) (Atracurium besylate). (2.5marks)

Anticholinesterases drugs: (4marks)

- A) Classify anticholinesterase drugs
- b) List some clinical uses of anticholinesterase drugs
- c) Describe how they act.
- d) Mention side effects of anticholinesterase drugs.

Magnesium in anesthesia & critical care medicine .Discuss the effects of magnesium sulphate on: (4marks)

- A) Cardiovascular system.
- b) Nervous system.
- c) Tetanus.
- D) Respiratory system.

Compare & contrast the pharmacology of thiopentone sodium & propofol. (2marks)

Good Luck

Tanta University Exam. For Master
Anesthesia & Surgical Intensive Care
Anatomy & Embryology Dep.
Date: 25/3 /2020
Number of Questions: 4

Time Allowed: 3 Hours
Total: 45 Marks



Anesthesiology & Surgical Intensive Care

All questions to be answered

Illustrate your answer with diagram whenever possible:

- Question (1):** (18 marks)
A- Describe shape and attachments of falx cerebri and enumerate dural venous sinuses related to it. (10 marks)
B- Enumerate branches of vertebral and basilar arteries. (8 marks)
- Question (2):** (9 marks)
Enumerate muscles of soft palate and their nerve supply.
- Question (3):** (7 marks)
Describe origin, course and branches of phrenic nerve.
- Question (4):** (11 marks)
Enumerated deep origin, functional components and branches of glossopharyngeal nerve.

END OF THE EXAM

Oral & Practical Examination:

On 4/4/2021 at 9 o'clock in the Anatomy Department (Second floor)

WITH BEST WISHES

Committee of the exam: *Prof. Dr. Amal Halawa Prof. Dr. Maysa Fahmy
Assis. Prof. Dr. Rabab Amer*

Tanta University
Faculty of Medicine
Department of Neuropsychiatry
March,25/ 2021

Phomiatics master Degree
Psychology written examination-

25/3/2021

Answer the following questions:

- 1- Discuss development of language
- 2- Discuss intelligence

Good luck

أجب عن ثلاثة أسئلة فقط على أن يكن الاول منها :

❖ السؤال الأول :

(٥ درجات)

اجري اختار بنيه للذكاء على طفل عمره الزمني ٩ سنوات ، ٤ شهور ، ٢٠ يوماً .

أجاب عن أسئلة سن الرابعة كلها و عن ٣ اسئلة من سن السادسة و عن سؤالين من سن السابعة . فاحسب الآتي

* العمر الزمني بالشهور * العمر القاعدي بالسنوات

* العمر العقلي بالشهور * العمر السقفي بالسنوات

* نسبة الذكاء * في أي فئة يصنف

❖ السؤال الثاني :

(٥ درجات)

اذكر الملامح التشخيصية لاضراب الانتباه المصحوب بفرط النشاط .

❖ السؤال الثالث :

(٥ درجات)

تناول باختصار الطرق التقليدية و العلمية في قياس الإعاقة السمعية .

❖ السؤال الرابع :

(٥ درجات)

تناول اضطراب التوحد من حيث الخصائص و الأسباب .

انتهت الأسئلة و الله الموفق

استاذ المادة

أ.د / أحمد أحمد متولي