



Department of physiology  
Time allowed: Three hours  
Total marks: 60

Physiology  
MSC Dermatology

Tanta University  
Faculty of Medicine  
Code: DERMVEN 8001  
Date: 22/8/2021

**All the questions must be answered:**

- 1- Discuss : Effect of endocrinal disorders on the skin. (15 marks)
- 2- State : Factors affecting spermatogenesis. (15 marks)
- 3- Mention: Types and mechanisms of cutaneous hyperalgesia. (15 marks)

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

**1- Pain sensation is characterized by:**

- a. Obey Muller law.
- b. Has no specific receptors.
- c. Its receptors are very slowly adapted.
- d. Its receptors are rapidly adapted.

**2- Protopathic sensation is characterized by:**

- a. Perceived by cerebral cortex.
- b. well localized.
- c. Perceived by thalamus.
- d. Need low threshold stimulus.

**3- Locality of sensation is identified by:**

- a. Muller law.
- b. Recruitment of receptors.
- c. Law of projection .
- d. Weber Fechner law.

**4- Pain inhibitory complex located in :**

- a. Brain stem.
- b. Sensory cortex.
- c. Dorsal horn of the spinal cord.
- d. Ventral horn of the spinal cord.

**5- Cutaneous vasodilatation is induced by:**

- a. Vagal stimulation.
- b. Decrease sympathetic tone to cutaneous blood vessels.
- c. Increase sympathetic tone to cutaneous blood vessels.
- d. Increase parasympathetic tone to cutaneous blood vessels.

**6- Blood flow to the skin under comfortable temperature normally equal:**

- a. 150 ml/min.
- b. 500 ml/min.
- c. 50 ml/min.
- d. 5 liter/min.

**Look to back**

**Biochemistry Exam. For Dermatology Diploma**

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**I) Write on the following:**

- a. Sources, functions and deficiency of vitamin C.
- b. Mechanism of action of testosterone.

**II) Give an account on:**

- a. Types of collagen and structure of its basic unit.
- b. Discuss melanine biosynthesis and its metabolic defect.
- c. Structure and function of IgM.

*Good Luck*

سيعقد الامتحان الشفوى بمشيئة الله بعد الامتحان النظرى مباشرة في قسم  
الكيمياء الحيوية الطبية مع ضرورة التزام الطالب بارتداء الكمامة



Tanta University  
Faculty of Medicine  
Dermatology Department

22/8/2021

Master exam: semester 1

Time allowed: 3 hours

- 1- Discuss zoophylic dermatophytes regarding: (20 marks)
  - a) The types
  - b) The skin lesions caused by them
  - c) The laboratory investigations
  - d) The microscopic and macroscopic features
- 2- Describe the main characters of yeasts. (10 marks)
- 3- Mention in details types of asexual spores. (10 marks)
- 4- Enumerate malassezia species, skin diseases caused by them and laboratory diagnosis. (20 marks)

Head of Department  
Prof. Dr. Noha Doghaim

Good luck



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

Physiology  
MSC of Anesthesia

Tanta University  
Faculty of Medicine  
Code: ANES8001  
Date: 22/8/2021

**All the questions must be answered:**

- 1- Compare between obstructive and restrictive lung disease on pulmonary function tests . (10 marks)
- 2- Discuss: Compensatory reaction to hemorrhage (10 marks)
- 3- a) State :types and effect of stimulation of chemoreceptors. (5 marks)  
b) Mention : Causes of RBCs hemolysis. (5 marks)

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

- 1- which of the following is function of glucocorticoids:
  - a. Decrease blood glucose level.
  - b. Decrease plasma level of fatty acids.
  - c. Increase number of RBCs.
  - d. Decrease blood volume .
- 2- Which of the following is somatic reaction to pain:
  - a. Increase heart rate.
  - b. hyperalgesia.
  - c. Flexion withdrawal reflex.
  - d. Decrease arterial blood pressure.
- 3- Which of the following could induce hypoxic hypoxia:
  - a. Alcohol poisoning.
  - b. CO poisoning.
  - c. Alveo-capillary block.
  - d. Cyanide poisoning.
- 4- Which of the following contain nicotinic receptors :
  - a. Heart.
  - b. Lung.
  - c. Adrenal medulla.
  - d. Salivary glands.
- 5- Stimulation of muscarinic receptors induce:
  - a. Increase heart rate.
  - b. Increase gastric evacuation.
  - c. Coronary vasodilatation.
  - d. Bronchodilatation.
- 6- Which of the following stimulate secretion of erythropoietin:
  - a. Acidosis.
  - b. Alkalosis.
  - c. Estrogen.
  - d. Increase arterial PO<sub>2</sub>.
- 7- Which of the following could increase venous return:
  - a. Venodilatation.
  - b. Arteriolar dilatation.
  - c. Positive intrapleural pressure.
  - d. Vasoconstriction to arterioles.

Look to back



Tanta University

Exam. For Master  
Anesthesia & Surgical Intensive Care



Anatomy & Embryology Dep.

Date: 22 /8 /2021

Time Allowed: 3 Hours

Number of Questions: 4

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 connections, tributaries and drainage of cavernous sinus. (10 marks)  
B- Enumerate structures in the middle line of the neck. (8 marks)
- Question (2):**  
Enumerate muscles and nerve supply of the tongue. (9 marks)
- Question (3):**  
Describe parts of parietal pleura and their nerve supply. (7 marks)
- Question (4):** (11 marks)  
A - Enumerate arterial supply of the spinal cord. (4 marks)  
B - Enumerate deep origin, functional components and branches of facial nerve. (7 marks)

**END OF THE EXAM**

Oral & Practical Examination:

On Tuesday 31 /8/2021 at 10 o'clock in Anatomy Department (Second floor)

**WITH BEST WISHES**

*Committee of the Exam: Prof. Dr. Amal Halawa, Prof Dr. Mona Attia, Prof Dr. Doaa Haiba, Assis. Prof Dr. Emad Mishriki, Assis. Prof Dr. Remon Aziz*

*Committee of exam: Prof. Dr. Maysa Fahmy Prof. Dr. Manal Elbermawy  
Prof. Dr. Doaa Haiba*

Faculty of Medicine

Anesthesia, SCC & Pain Medicine Department.

Date: 22 / 8 / 2021

(Pharmacology)

No. of Questions: 4

Times allowed: 1 hour /3 hours

Total marks: 15



- 1- Compare and contrast the pharmacology of propofol and thiopentone. (4 Marks)
- 2- Discusses drugs used in anesthetic practice to induce deliberate hypotension as regard types and mode of action. (4 Marks)
- 3- Describe the principles underlying the treatment of postoperative nausea and vomiting (PONV). (4 Marks)
- 4- Compare the pharmacology of atropine, hyoscine and glycopyrrolate. Outline their main uses in anaesthetic practice. (3 Marks)

-----GOOD LUCK.

Tanta University  
Faculty of Medicine  
Human Anatomy & Embryology Dep.  
Date:22/8/2021  
Number of Questions:5

Master of Physical Medicine

Time Allowed: 3 Hours  
Total: 60 Marks



## PHYSICAL MEDICINE

### All questions to be answered

- 1- **ENUMERATE** the movements occur in the **ankle** joint and mention the muscles responsible for each movement and their nerve supply. (12 marks)
- 2- **COMPARE** between the **knee** and **elbow** joints as regard the type, movements and stability factors with explanation. (12 marks)
- 3- **WHAT** are the joints connecting the first and second **cervical** vertebrae and describe these joints? (12 marks)
- 4- **Discuss** the three **cerebral** arteries; their origin and branches to the brain. (12 marks)
- 5- **Discuss** the deep cranial nuclei of the **vagus** nerve and describe its course and branches in the neck. (12 marks)

**END OF THE EXAM**

### Oral & Practical Examination:

On Tuesday 31 at 10 o'clock in the Anatomy Department (Second floor)

**WITH Our BEST WISHES**

**Committee of Examination:** *Prof. Dr. Amal Halawa, Prof. Dr. Mona Attia, Prof. Dr. Manal Elsayaf, Prof. Dr. Doaa Haiba, Assis Prof. Dr. Emad Mishriki, Assis Prof. Dr. Remoon Aziz*





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

Physiology  
MSC General Surgery

Tanta University  
Faculty of Medicine  
Code: SURG 800  
Date: 19 /8/ 2021

**All the questions must be answered:**

- 1- State : Compensatory reaction to acute hemorrhage. (5 marks)
- 2- Mention : Functions of antidiuretic hormone. (5 marks)
- 3- State : Manifestations of obstructive jaundice. (5marks)

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

**1- Which of the following is function of insulin:**

- |                                |                                    |
|--------------------------------|------------------------------------|
| a. Stimulate lipolysis.        | c. Promote protein anabolism.      |
| b. Promote protein catabolism. | d. Increase blood potassium level. |

**2- Hemophilia is characterized by :**

- |                                  |                                 |
|----------------------------------|---------------------------------|
| a. Prolonged bleeding time.      | c. Prolonged coagulation time.  |
| b. Decrease number of platelets. | d. Abnormal platelet function . |

**3- Which of the following contain muscarinic receptors:**

- |                       |                        |
|-----------------------|------------------------|
| a. Adrenal medulla.   | c. Eccrine sweat gland |
| b. Autonomic ganglia. | d. Motor end plate.    |

**4- Stimulation to beta 2 adrenergic receptors induce :**

- |                                 |                            |
|---------------------------------|----------------------------|
| a. Bronchoconstriction.         | c. Coronary vasodilatation |
| b. Increase gastric secretion . | d. Pupil constriction.     |

**5- Cyanotic threshold normally equal:**

- a. 5 gm % arterial blood.
- b. 5 gm % capillary blood.
- c. 5 mg % arterial blood.
- d. 5 mg % capillary blood.

**6- Visceral pain is characterized by:**

- |   |                                      |
|---|--------------------------------------|
| a. Never referred.                        | c. Well localized                    |
| b. Rigidity of overlying skeletal muscle. | d. Induce flexion withdrawal reflex. |

**7- Venous return is decreased by:**

- |                                  |   |
|----------------------------------|---|
| a. Vasodilatation of arterioles. | c. Increase negative intrapleural pressure. |
| b. Venodilatation.               | d. Venoconstriction                         |

**Look to back**





## Master of General Surgery

**Write short assay on the following:**

- 1) Laboratory tests of obstructive jaundice.
- 2) Tumor markers of:
  - Prostatic carcinoma
  - Colonic carcinoma
  - Breast carcinoma
- 3) IgG.



Tanta University  
Faculty of Medicine  
Department of Microbiology & Immunology

Examination for Master Degree in  
Dermatology  
Course Title: Microbiology and Immunology  
Date: 22 / 08 / 2021  
Time Allowed: 2 hours  
Total Assessment Marks: 60marks

**All Question to be answered:**

**1-As regard Type IV Hypersensitivity Discuss the followings:**

**A- Mechanism (4Marks)**

**B- Diagnosis (8Marks)**

**2-Discuss causative organism and laboratory diagnosis of gonorrhoea (12marks)**

**3-Give short account on:**

**A-Tumor immunology (6marks)**

**B-Treponemal Antigen Tests (6marks)**

**4- Mention the mechanisms of resistance of antimicrobial agents. (12 Marks)**

**5-As regard leprosy mention the following (12Marks)**

**A-Morphology of causative organism (4marks)**

**B-Clinical types (8marks)**

Best Wishes



Department of physiology

Time allowed: Three hours

Total marks: 30

Physiology

MSC of Gynecology and Obstetric

Tanta University  
Faculty of Medicine

Code: OBST

Date: 26 /8/2021

**All the questions must be answered:**

1- Discuss : Stages of menstrual cycle. (8 marks)

2- Mention : Signs of ovulation. (7 marks)

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

1- Which of the following is function of glucocorticoids:

- a. Decrease blood glucose level.
- b. Decrease plasma level of fatty acids.
- c. Increase number of RBCs.
- d. Decrease blood volume .

2- Which of the following is somatic reaction to pain:

- a. Increase heart rate.
- b. hyperalgesia.
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- d. Decrease arterial blood pressure.

3- Which of the following could induce hypoxic hypoxia:

- a. Alcohol poisoning.
- b. CO poisoning.
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5- Stimulation of muscarinic receptors induce:

- a. Increase heart rate.
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- c. Coronary vasodilatation.
- d. Bronchodilatation.

6- Which of the following stimulate secretion of erythropoietin:

- a. Acidosis.
- b. Alkalosis.
- c. Estrogen.
- d. Increase arterial PO<sub>2</sub>.

7- Which of the following could increase venous return:

- a. Venodilatation.
- b. Arteriolar dilatation.
- c. Positive intrapleural pressure.
- d. Vasoconstriction to arterioles.

Look to back

الفسيولوجيا

- 8- Which of the following induced by stimulation of alpha 1 adrenergic receptors :
- Increase heart rate .
  - Bronchoconstriction.
  - Vasoconstriction to blood vessels.
  - Bronchodilatation.
- 9- Which of the following could stimulate aldosterone secretion:
- Hypervolemia.
  - Hypoproteinemia.
  - Increase blood potassium level.
  - Decrease blood potassium level.
- 10- Which of the following is function of heparin :
- Antiprothrombin.
  - Activate prothrombin.
  - Inhibit activity of platelets.
  - Inhibit activity of vitamin K.
- 11- Which of the following could increase capillary permeability:
- Acidity of blood.
  - Alkalinity of blood.
  - Increase plasma protein level.
  - Increase blood calcium level.
- 12- Increase arterial blood pressure could induce which of the following.
- Increase end diastolic volume.
  - Increase heart rate.
  - Increase secretion of aldosterone.
  - Increase secretion of antidiuretic hormone.
- 13- Which of the following could increase peripheral vascular resistance :
- Anemia.
  - Vasodilatation of arterioles.
  - Increase heart rate.
  - Increase blood viscosity.
- 14- Which of the following could induce metabolic acidosis:
- Restrictive lung disease.
  - Hyperventilation.
  - Hypoventilation.
  - Renal failure.
- 15- Which of the following is CORRECT as regard blood PH:
- Inversely proportionate with arterial  $\text{HCO}_3$ .
  - Directly proportionate with arterial  $\text{PCO}_2$ .
  - Normally equal 7.1 for arterial blood.
  - Directly proportionate with arterial  $\text{HCO}_3$ .

إمتحان الشفهي يوم السبت 2021/8/28 في قسم الفسيولوجي التاسعة صباحا