

Department of physiology Time allowed: Three hours

Total marks: 45

Physiology

Diploma of Internal Medicine

Tanta University Faculty of Medicine Code: MED 8002

Date: 23 /2/ 2022

All the questions must be answered:

- 1-Discuss: Pathophysiology of heart failure. (10 marks)
- 2- Discuss: Factors affecting gas exchange across respiratory membrane. (10 marks)
- 3- Mention functions of: a. Thyroid hormones. (5 marks)

b. Gall bladder. (5 marks)

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

- 1- Sympathetic stimulation could induce:
 - a. Miosis.

c. Bronchoconstriction.

b. Increase gastric secretion.

- d. Pupil dilatation.
- 2- Which of the following could induce cyanosis:
 - a. Stagnant hypoxia.

c. Histotoxic hypoxia.

b. CO poisoning.

- d. Anemic hypoxia.
- 3-Blood group AB is characterized by:
 - a. Absence of A and B agglutinogen on RBCs.
 - b. Presence of alpha and beta agglutinin in plasma.
 - c. Presence of A and B agglutinogen on RBCs.
 - d. It is universal donor.
- 4- Which of the following Induce coronary vasodilatation :
 - a. Vagal stimulation.

- c. Increase cardiac metabolic activity.
- b. Muscarinic stimulation.
- d. Stimulation of alpha 1 adrenergic receptors.
- 5- Which of the following could induce edema:
 - a. Decrease capillary hydrostatic pressure.
- c. Vasoconstriction of arterioles.
- b. Increase capillary hydrostatic pressure.
- d. Increase plasma protein level.
- 6- Which of the following help platelet aggregation in haemostasis:
 - a. Prothrombin activator.

c. Thrombin.

b. Thromboxan A2.

- d. Fibrinogen.
- 7- Which of the following is CORRECT regarding peripheral chemoreceptors:
 - a. Its stimulation induce bradycardia.
- c. Mainly stimulated by alkalosis.
- b. Mainly stimulated by hypoxia.
- d. Its stimulation decrease respiratory rate.

Look to back

8- Pain sensation is characterized by which of the following:

- a. Its receptors are rapidly adapted.
- b. Its receptors are moderately adapted.
- c. Its receptors are free nerve endings.
- d. Carried by dorsal column of the spinal cord.

9- Glucocorticoids could decrease blood level of:

a. Free fatty acids.

c. Esinophils.

b. Glucose.

d. RBCs.

10- Which of the following is CORRECT regarding referred pain:

- a. Could explained by dorsal root branching mechanism.
- b. Could explained by convergence facilitation mechanism.
- c. Never occur with visceral pain.
- d. Always occur with cutaneous pain.

11- Which of the following could increase heart rate:

- a. Stimulation to beta 1 adrenergic receptors.
- b. Venodilatation.
- c. Stimulation to muscarinic receptors.
- d. Stimulation to arterial baroreceptors.

12- Intrinsic mechanism of blood coagulation is initiated by:

- a. Contact with rough surface.
- c. Activation of factor X.

b. Injury to blood vessels.

d. Activation of factor VII.

13- Vasodilatation of arterioles could induce:

- a. Increase peripheral vascular resistance.
- b. Decrease venous return.
- c. Decrease central venous pressure.
- d. Decrease peripheral vascular resistance.

14- Which of the following could induce respiratory alkalosis:

a. Restrictive lung disease.

c. Hypoventilation.

b. Renal failure.

d. Hyperventilation.

15- Which of the following is CORRECT as regard blood PH:

- a. Inversely proportionate with arterial HCO₃.
- b. Directly proportionate with arterial PCO₂.
- c. Directly proportionate with arterial HCO_3 .
- d. Normally equal 7.1 for arterial blood.

إمتحان الشفهي يوم الثلاثاء 1/2022/3 في قسم الفسيولوجي التاسعة صباحا

Tanta University
Faculty of Medicine
Department of Medical Biochemistry

First Part Examination for Diploma Degree in Internal Medicine Medical Biochemistry Exam

Date: 23/2/2022

All questions should be answered

Write short notes on the following items

- 1. Polymerase chain reaction and its usage
- 2. Biochemical changes in type 2 diabetes mellitus
- 3. Jaundice with highlighting the biochemical changes occur in each type.

Good luck

تنبيه هام: سوف يعقد الإختبار الشفوى بالقسم بعد الإمتحان النظري مباشرة في نفس اليوم الأربعاء الموافق 2022/2/23

Course Title: Microbiology & Immunology

Date: 26/ 2 /2022 Term: 1st part

Time Allowed: 3 hours (with pathology & clinical pathology)

Total Assessment Marks: 45 All questions to be answered



Tanta University
Faculty of Medicine
Department of Microbiology
and Immunology

Q1: Enumerate:

a) Explain Methods used for testing the efficiency of autoclave.

(2 marks)

b) Mechanisms of antimicrobial drug resistance

(3 marks)

Q2: Give short account on the following

(4 marks each)

- a) Steps of phagocytosis
- b) Factors influencing antigenicity or immunogenicity
- c) Discuss the mechanism of anaphylactic hypersensitivity reaction Q3: (3 marks)

<u>COVID-19</u> is a pandemic disease affecting millions of peoples around world, it is transmitted by <u>droplet infection</u>, according to this mention other routes of disease transmissions then mention main items of <u>droplet based precautions</u> to reduce COVID 19 transmission

Q4:

(5 marks)

Define Septicemia then mention the most common organisms isolated from blood cultures of septicemic patient.

Q5: Discuss the following:

(5 marks each)

- a) Methicillin resistance Staphylococcus aureus (MRSA)
- b) Clinical forms of Anthrax

Q 6: Discuss the following

a) Laboratory diagnosis for humaninfluenza virus

(4 marks)

b) Indication for vaccination against Hepatitis B virus

(3 marks)

c) Laboratory diagnosis of candida infection

(3 marks)

Chairman of Department

Prof Dr. Mohammed Zakaria

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Chairman of Department

Prof Dr. Mohaianed Zakaria

Tanta University Faculty of Medicine Clinical Pathology Department February, 26 2022



Diploma Internal Medicine
Clinical Pathology Department
Total Marks: 45

Time Allowed: 1 Hour

Give short account on: (7.5 each)

- A) Laboratory diagnosis of chronic lymphocytic leukemia.
- B) Diagnostic approach for a case of thrombocytopenia.
- C) Macrocytic anemia: etiology and laboratory diagnostic approach.
- D) Types and clinical significance of hepatitis B serological markers.
- E) Types and causes of proteinuria.
- F) Causes and laboratory diagnosis of hypothyroidism.

ملحوظة: لجنة الشفوي يوم الاثنين 2022/2028 اجنة الممتحنين: اجريهان الشرنوييي اع دد است

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Faculty of Medicine
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Chairman of Depa. tment

Prof Dr. Mohaian ed Zakaria

Course Title: MED 7003 Path

Date: 26-2-2022

Time Allowed: one hours Total Assessment Marks: 45



Questions numbers		Marks
Q1: Give an account on:		(20)
1- Causes and sites of thrombosis.		10
2- Types of tuberculous peritonitis.		5
3- Types of emboli.		5
Q2: Discuss the predisposing factors, gross & micro	oscopic features of HCC.	. (10)
Q3: Give an account on:		(15)
1- Complications of typhoid fever.		5
2- Membranoproliferative glomerulonephritis	(etiology, pathologic feat	tures,
immunofluorescence, electron microscopy a	and prognosis).	10

يعقد الامتحان الشفوى يوم الأتنين الموافق ٢٠٢٢/٣/٧ الساعة العاشرة صباحا بالقسم

Examination Committee:

Prof Dr. Samir Mena

Prof. Dr. Zeinab El-Gendy

Prof. Dr. Maha Shamlola

Prof. Dr. Mona Abd El-Haq

Prof. Dr. Ayman El-Saka

Ass. Prof. Dr. Asmaa Bedeer