Examination for Master Degree in clinical pathology : Course Title: Microbiology and Immunology Date:15 / 04 / 2017 Term: 1st part Time Allowed: 3 hours Total Assessment Marks: 100 marks Number of the questions:8



(5 marks each)

Tanta University Faculty of Medicine Department of Microbiology & Immunology

All the questions should be answered :

Q1: Compare between .

- a) Class I and II MHC antigen presentation
- b) Plasmid and transposons
- c) Flagella and pilli
- d) Exotoxins and endotoxins
- Q2: Explain the mechanisms of bacterial resistance to antimicrobial drugs and the role of genetic control. (10 marks)

Q3: Give an account on:

- a) Monoclonal antibodies.
- b) Cord factor.
- c) Mycotoxicosis
- d) cultures in cultivation of viruses

Q4: <u>How can you diagnose a case with</u> :

(5 marks each)

(5 marks each)

- a) Latent T.B.
- b) Primary stage of Syphilis
- c) Whooping cough

Q5: A 3- years old boy was brought to the hospital by his mother, who said that he is not well, the baby is irritable, is listless & feverish. 4 hours later, he showed neck stiffness with purpuric rash. (15 marks)

- a- What infection may the child have?
- b- What diagnostic microbiology test were performed ?
- c- What are the most likely bacterial pathogen(s)?
- d- Which antibiotics should have been given?

Q6:Define the measures used to control hospital acquired infections. (10 marks)



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Q7: Enumerate the orally transmitted hepatitis and discuss the laboratory diagnosis and vaccine used against one of them (5 marks)

Q8: Anti-fungal therapy.

(5 marks)

Oral exam will be held on 24 /4/2017 at 10:30 am in the Microbiology Depart

Practical exam. is on 30/04 – 2/5 /2017.

Chairman of Department Prof. Dr. Mohammed Zkaria

Tanta University Faculty of Medicine Clinical pathology Department Date: 9-4-2017 Hematology M.D. Paper 1 Number of Questions: 3 Time allowed: 3 hours



All questions should be answered

Q1 Write on each of the followings:

a) Indications and laboratory assessment of renal dialysis. (20 marks)

b) Pathogenesis , laboratory diagnosis and differential diagnosis of PCO

(15 marks)

c) Causes of hypoglycaemia in neonates, infants and adults and its laboratory diagnosis. (15marks)

Q2) Give an account on:

a) Complement activation pathways.(15 marks)b) B cell functions.(10 marks)

Q3) Discuss each of the following:

- a) Causes and laboratory diagnosis of bacterial food poisoning. (15 marks)
- b) Infectious diseases transmitted from mother to fetus. (10 marks)

Good luck

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Tanta University Faculty of Medicine <u>Clinical Pathology Department</u> April, 2017



SECOOND PAPER Hematology

Hematology for M.D

Total Marks: 100

Time Allowed: 3 hours

All questions must be answered

1-1a Discus role of vascular endothelium in hemostasis. (12 marks)1b- Write short account on Paroxysmal nocturnal hemoglobinuria.

(10 marks)

2-2a- Discus sickle cell diseases and sickle cell syndromes. (12 marks)

2-b Write short account on basic concepts in hematological malignancies. (10 marks)

3-3-a Discus nature and consequences of acquired genetic abnormalities in hematological malignancies. (12 marks)

3-b Write short account on thrombophilic screening. (10 marks)

4-4-a Discus morphological variants of CLL, laboratory diagnosis and prognosis. (12 marks)

4-b Write short account on bone marrow biopsy, indications and clinical significances (10 marks)

5- Case :Male patient 55 years old complained of increasing fatigue, weakness and pain in lower back and arms.

Lab Findings : CBC revealed anemia normal and Differential leucocytic count except for rouleaux appearance of the RBCs, ESR 50mm/Hr, Normal

Kidney profile and normal liver profile except for increases globular protein. The skeletal survey indicated bone lesions in various sites.

- 1- What follow-up laboratory test might be ordered to assist in establishing a definitive diagnosis?
- 2- What is the final diagnosis?
- 3- What is the nature of protein found in urine?
- 4- What is the most significant laboratory findings in this disorder?

(12 marks)

Good Luck

Department Chairman

Prof. Desoky AboAmmo

مرجم عربی درجر محدده آینا مجریک



Examination for (MD Clinical Pathology) Course Title : Paper 2 (Clinical Chemistry) Date : 18 /4/ 2017 Time Allowed : 3.0 hours Total marks : 100 marks

Tanta University Faculty of Medicine Department of Clinical Pathology

marks

All questions must be answered

I-	Discuss:	
	a- Hirsutism, most common causes and their laboratory assessment	(15)
	b- Micro-RNA, functions and possible applications in molecular medicine	e (20)
II-	Write an account on:	
	a- Chemiluminescence, the theoretical background and its laboratory	
	applications	(10)
	a- How to introduce a new test in the lab?	(10)
	b- Gastrointestinal hormones and its clinical significance	(10)
III-	Give an account on:	
	a- Follow up of renal transplantation: laboratory assessment	(10)
	b- Genetic bases of metabolic syndrome	(15)
	c- Clinical relevance of plasma and urine osmolality	(10)

رئيس القسم

أ.د/ دسوقي عزت أبو عمو

أعضاء لجنة الامتحان

أ.د/ ثريا بدوي
أ.د/ محمد سويلم
أ.د/ أماني أبو العينين
أ.د/ هشام السروجي



Tanta University Faculty of Medicine Department of Parasitology

Course Title: Parasitology Examination for Master Degree of Clinical Pathology

Date: 10-4-2017 Time allowed: 2 hours Total assessment marks: 100 Marks

Chairman of Department	Prof Dr. Samy El-Kowrany Dref Dr. Samy El Kowrand

The following **SiX** questions must be answered: (Draw whenever possible)

 Mention <u>four</u> different methods for direct laboratory diagnosis of blood parasites. Discuss <u>one</u> of these methods. Illustrate with diagrams the diagnostic stages of intra-erythrocytic protozoa.

[20 marks]

[20 marks]

[10 marks]

II) Give an account on:

- 1) Laboratory diagnosis of *Fasciola gigantica* infection.
- 2) External myiasis.
- 3) Visceral leishmaniasis (clinical aspects and direct laboratory diagnosis).

III) Give the reason(s) for the following statements: [20 marks]

- 1) Avidity test is needed for diagnosis of maternal toxoplasmosis.
- 2) Elephantiasis may occur in chronic infection with Wuchereria bancrofti.
- 3) Entamoeba histolytica infection could be fatal.
- 4) Hyperinfection may occur in strongyloidiasis.

IV) Name only TWO parasites which can be:

- 1) Diagnosed by cerebrospinal fluid examination.
- 2) Complicated with chorioretinitis.
- 3) Presented with hypochromic anaemia.
- 4) Diagnosed by cultivation on NNN medium.
- 5) Presented with high eosinophilia.

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V) Read the following and answer the related questions: [20 marks]

A diarrhoeic stool sample with mucus and blood was referred to your laboratory. Available clinical data included hepatosplenomegaly, recurrent abdominal pains, and hypochromic anaemia.

- 1) What is the possible diagnosis of this case?
- How would you confirm this diagnosis? 2)
- Enumerate other **three** parasites that may cause dysentery. 3)

VI) Choose the correct answer(s):

1- The cyst can be a diagnostic stage for all the following parasites EXCEPT:

- (A) Giardia lamblia (B) Naegleria fowleri
- (C) Balantidium coli (D) Acanthamoeba spp.

2- Autoinfection may occur in infection with:

(A) Taenia saginata (B) Trichuris trichiura (C) Giardia lamblia (D) Dracunculus medinensis

3- Diethylcarbamazine is useful in the diagnosis of:

(A) Hepatic amoebiasis (B) Scabies (C) Cysticercosis (D) Onchocercosis

4- Loeffler's syndrome may occur in patients infected with:

(A) Giardia lamblia (C) Ancylostoma duodenale

(A) Fasciola hepatica

(B) Enterobius vermicularis (D) Entamoeba histolytica

5- Xenodiagnosis is used for diagnosis of which of the following?

- (B) Schistosoma mansoni
- (C) Strongyloides stercoralis (D) Trypanosoma cruzi

6- Eating raw beef is the mode of infection in all of the following parasites EXCEPT:

- (A) Taenia saginata
- (C) Sarcocystis bovihominis
- (B) *Heterophyes heterophyes*
 - (D) Toxoplasma gondii

[10 marks]

7- Thrombocytopenia may occur in infection with:

- (A) Trichinella spiralis (B) Leishmania donovani
- (C) Cryptosporidium spp.

(D) Fasciola gigantica

8- Duodenal fluid examination is useful for diagnosis of infection with:

(A) Isospora belli

- (B) Trichinella spiralis
- (C) Toxoplasma gondii (D) Strongyloides stercoralis

9- Which of the following parasites can be infective for laboratory personnel?

- (A) Ascaris lumbricoides(C) Heterophyes heterophyes
- (B)Strongyloides stercoralis(D) Cryptosporidium spp.

10- Nephrotic syndrome may complicate infection with:

(A) Trichuris trichiura(B) Plasmodium malariae(C) Schistosoma mansoni(D) Hymenolepis nana

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سيتم تحديد مواعيد الإمتحانات الشفوى و العملى بمعرفة القسم

Best wishes