



Tanta University
Faculty of Medicine
Clinical Pathology Department
October 24, 2018

Master Degree Exam in
Hematology and Immunology.
Total Mark: 270 marks
Time Allowed: 3 hours

**All questions must be answered*

I. *Give an account on:* (100 marks)

- a. Revised WHO classification of myelodysplastic disorders.
- b. Expression of cell-surface and cytoplasmic markers for the diagnosis of acute Myeloid leukemia and mixed-phenotype acute leukemia.
- c. Antigen-presenting cells and their role in immune response

II. (70 marks)

- a. *Enumerate* causes of hereditary coagulation disorders, and mention laboratory and differential diagnosis of vonWillebrand disease.
- b. Write on post-transfusion purpura and dilutional thrombocytopenia.

III. *Discuss:* (100 marks)

- a. Causes, laboratory, and differential diagnosis of a case of iron deficiency anemia.
- b. Chronic granulomatous disease.
- c. Hemolytic disease of the newborn.

Good luck

*Prof. Soheir Abdul-Halim
Prof. Sahar Hammouda
Pro. Nahed Elwan*

*Head of department
Prof. Eman Mashhour*



Tanta University
Faculty of Medicine
Clinical Pathology Department
October 22, 2018

Master Degree Exam in
Hematology and Immunology.
Total Mark: 100 marks
Time Allowed: 3 hours

**All questions must be answered*

I. (30 marks)

- a. Enumerate causes of inherited hemolytic anemia, and discuss pathogenesis and laboratory diagnosis of sickle cell anemia.
- b. Give an account on pure red cell aplasia.

II. *Discuss:* (40 marks)

- a. Pathogenesis , laboratory and differential diagnosis of Infectious Mononucleosis.
- b. Role of protein C system in hemostasis.
- c. Immunologic complications of blood transfusion.

III. *Write on:* (30 marks)

- a. Differential diagnosis of multiple myeloma.
- b. Indications of Immunophenotyping.

Good Luck

*Prof. Soheir Abdul-Halim
Prof. Sahar Hammouda
Prof. Nahed Elwan*

*Head of Department
Prof. Eman Mashhour*



Examination for (Master Degree Clinical Pathology)
Course Title : Clinical Chemistry
Date : 17/10/ 2018
Time Allowed : 3.0 hours
Total marks : 100 marks
لائحة ٢٠١٣

Tanta University
Faculty of Medicine
Department of Clinical Pathology

All questions must be answered

	marks
I-Discuss:	
a-Hyperaldosteronism: causes and laboratory diagnosis	(15)
b-Autoimmune hepatitis: types, pathogenesis and laboratory diagnosis	(10)
c-Reverse cholesterol transport	(10)
II-Give an account on:	
a-Role of the kidney in acid base balance	(10)
b-Hypocalcemia : causes, methods of estimation and sample precautions	(10)
c-Glycated hemoglobin: clinical significance and methods of estimation	(10)
III-Mention the following:	
a-RT-PCR: principle and applications	(15)
b-Clinical utility of enzyme tumor markers	(10)
c-CSF proteins and clinical significance	(10)

- موعد امتحان العملي يومي السبت ٢٧ والأحد ٢٨ أكتوبر ٢٠١٨

- موعد امتحان الشفوي يوم الاثنين ٢٩ أكتوبر ٢٠١٨

رئيس القسم
أ.د/ إيمان عبد الحي مشهور