

Examination of MD Immunology

Course Title: Clinical Pathology

Date: 7 / 5 /2022

Term: end exam

Time Allowed: 3hours



**Tanta University
Faculty of Medicine
Department of Clinical Pathology**

Give an account on:

1. B regulatory cells: origin, markers, functions and role in health and diseases 40 marks
2. Cellular and molecular mechanisms of autoimmune diseases 35 marks

Mention:

1. Five of immune receptor families: discuss one of them briefly 40 marks
2. Subsets of CD4 effector T cells, differentiation and functions 35 marks

Discuss:

1. Tumour antigens 40 marks
2. Natural killer cells : functions, receptors and mechanism of action 35 marks

Department Chairman

Prof. Amany Abou EL-Enein

Examiners

Prof. Mohammed Sweillam

Prof. Gihan Attia

Examination for (Clinical pathology Hematology,MD)
Time Allowed: 3 hour
Date : 27-4-2022

Total marks : 225 marks



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All questions should be answered

I. Give an account on:

- 1- Pathogenesis and Laboratory Diagnosis of Immune Hemolytic Anemia. (30marks)
- 2- Molecular Pathogenesis of Acquired Aplastic Anemia (25marks)
- 3- Laboratory features and prognostic factors in Chronic Lymphocytic Leukemia. (30marks)
- 4- Disseminated Intravascular Coagulation: Etiology, Pathogenesis and Laboratory features. (30marks)
- 5- Compatibility test (10marks)
- 6- Advantages of Autologous transfusion (10marks)

II. Discuss the Following

- 1- Diagnostic methods used to study neoplastic hematopoietic cells (30marks)
- 2- Revised WHO classification of myelodysplastic syndromes and myeloproliferative neoplasms (30marks)

III. How to evaluate a case of thrombocytopenia (30marks)

Good Luck

Examination for (MD Clinical Pathology-2013)
Course Title: (Clinical Chemistry)
Date: 20/04/2022
Time Allowed: 3.0 hours
Total marks: 100 marks



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All questions must be answered:

Q1	Give an account on: a-Urinary biomarkers in the assessment of early diabetic nephropathy b-Liver disorders in pregnancy	10 10
Q2	Mention: a-Novel biomarkers for predicting type 2 diabetes development b-Cholinesterases: types, clinical significance and methods of detection c-Synovial fluid analysis and interpretation	15 15 10
Q3	Discuss laboratory evaluation of hirsute female patient	10
Q4	Describe in brief: a-Variables affecting select chemistry analytes b-Potentiometry: principle, types and laboratory applications c-Blood gas analysis quality assurance cycle	10 10 10

رئيس القسم
أ.د/ أماني أبو العينين