

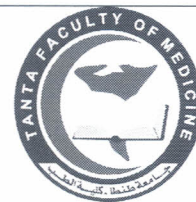
Examination of MD Immunology

Course Title: Clinical Pathology

Date: 13 / 11 /2021

Term: end exam

Time Allowed: 3hours



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

I- Give an account on:

1. Prevention and treatment of graft rejection 25 marks
2. Recent modifications of CAR T cell immunotherapy 25 marks
3. The mechanisms by which trophoblast escape maternal immune attack 25 marks

II- mention:

- 1- Mechanism of leucocyte s recruitment to site of inflammation 25 marks
- 2- Flowcytometry based test used for diagnosis of chronic granulomatous disease 25 marks
- 3- Myeloid derived suppressor cells (MDSC) : characterization, phenotypes and mechanisms of their immune suppressive function 25 marks

III- Discuss :

1. Cytokine releasing syndrome in Covid 19 patients 25 marks
2. Pathogenesis and therapeutic strategies of
 - Systemic lupus erythromatosis 25 marks
 - Rheumatoid arthritis 25 marks

Department Chairman

Prof. Amany Abou EL-Enein

Examiners

Prof. Mohammed Sweillam

Prof. Gihan Attia

Prof. Mohammed Attia

Examination of Medical Doctorate Clinical Pathology

Course Title: Clinical Microbiology

Date: October 2021

Time Allowed: 3 hour

Total Assessment Marks: 100

No. of pages: 1



Tanta University
Faculty of Medicine
Department of Clinical Pathology

I- Discuss causes, lab diagnosis and prevention of the following

- a) Pyrexia of unknown origin. (10 marks)
- b) Diabetic food infections. (10 marks)
- c) Peritonitis. (10 marks)

II- Answer the following questions:

- a) Critical (panic) values in microbiology. (10 marks)
- b) Secondary infection in COVID 19. (10 marks)
- c) Causes of sample rejection in microbiology laboratory. (10 marks)

III- Give an account on the following:

- d) Sepsis: causes, pathogenesis, and microbiological diagnosis. (15 marks)
- e) Solid organ transplant infections. (15 marks)
- f) Chemical disinfectants and antiseptic. (10 marks)

Best wishes & Good luck

Department Chairman
Prof. Amany Abo Elenien

Examiners
Prof. Amal Elbendary
Prof. Wesam Salah



Tanta University

MD Exam in Hematology.

Faculty of Medicine

Clinical Pathology Department

Total Mark: 225 marks

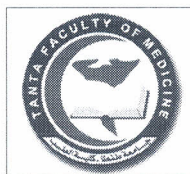
November , 6, 2021

Time Allowed: 3 hours

All questions should be answered:

- 1- Explain the role of the following automated cell counter parameters: (20 degree)
a. RDW b. IRF c. MCHC and CHCM d. blast flag
- 2- Classify neutropenia & mention the approach for diagnosis of a case of neutropenia (25 degree)
- 3- Define thrombophilia & enumerate the risk factors of both hereditary & acquired types and discuss the molecular pathogenesis & laboratory diagnosis. (25 degree)
- 4- Give an account on the following:
 - a. von Willebrand factor, and discuss the types of vW disease, lab findings & differential diagnosis. (25 degree)
 - b. Steps of BM transplantation process and its possible complications (20 degree)
- 5- Discuss the immunophenotyping & cytogenetic abnormalities of acute myeloid leukemia (30 degree)
- 6- Enumerate the mast cell activation disorders and how to evaluate a suspected case of mastocytosis (30 degree)
- 7- Discuss the followings:
 - a. Types of modification of packed red blood cells, its methodology , indications & possible disadvantages (25 degree)
 - b. Fresh frozen plasma regarding its preparation, contents, storage & thawing precautions, indications and contraindications (25 degree)

----- *Good Luck*



All questions must be answered:

Q1	Give an account on: a. Ascetic fluid analysis and clinical implication b. Immunofixation electrophoresis: principle and applications. c. Key Performance Indicators (KPSI) for medical laboratories	10 10 10
Q2	Mention: a. Different causes of micro and macro vascular fatty liver. b. Laboratory support for dialysis programs. c. Different methods used for nucleic acid analysis.	10 10 10
Q3	Draw An algorism to investigate a couple infertility.	10
Q4	Write short note on a. Test to differentiate type 2 and type 1 diabetes mellitus (DM). b. The role of the osmolal gap workup for metabolic acidosis.	15 15

Department Chairmen
Prof. Amany Abo-Elaneen

Prof. Mahmoud Elshehk
Prof. Hesham Elsrogy
Prof. Hala Nagy