

Examination for Master degree in Clinical Pathology
Hematology
Date: 22nd of November, 2020
Total marks: 100



All questions must be answered

1. Give an account on;

- a. *Von Willebrand disease* (VWD) (10 marks)
- b. Evaluation of platelets aggregation in the lab. (10 marks)
- c. idiopathic thrombocytopenic purpura (15 marks)

2. Give an account on: (30 marks)

- a. Causes, pathogenesis and diagnostic work-up of anemia of chronic disorders (15 marks)
- b. Etiology pathogenesis and diagnostic criteria of Paroxysmal nocturnal hemoglobinuria (PNH) (10 marks)
- c. Subtypes of AML according to the latest WHO classification (10 marks)

3. What are the common changes that occur in stored RBC products (storage lesions)? (10 marks)

4. Tabulate the characteristic features of different MPNs as regard the features of peripheral blood, bone marrow and molecular (20 marks)

The exam has been prepared by:

- Prof. Enas arafa
- Prof. Mohamed Atia
- Prof. Manal Eid (Head of Department)

Good Luck