

Examination for (PARASITOLOGY Ms)  
Course Title: Clinical pathology  
Term: first semester  
Time Allowed: 3 hour  
Date : 17 / 8 / 2019  
Time Allowed : 3.0 hour  
Total marks : 90 marks



Tanta University  
Faculty of Medicine  
Department of Clinical Pathology

**All questions must be answered :**

**Q1- Give a short brief on**

- a- Hematopoietic growth factors (9 marks)
- b- Stages of Erythropoiesis (9 marks)
- c- Types and function of Leukocytes in the peripheral blood. (12 marks)
- d- Possible Causes of Lymphocytosis & Lymphopenia (6 marks)

**Q2- Enumerate the principle of the flowcytometry major components of a flow cytometer and its application in laboratory (18 marks)**

**Q3- Give a short brief on**

- a- Causes of vitamin B<sub>12</sub> deficiency anemia (9 marks)
- b- Laboratory investigations of iron deficiency anemia. (9 marks)

**Q4- Give a short brief on mode of transmission and diagnosis of**

- a- RIFT Valley fever (5 marks)
- b- Dengue fever (5 marks)
- c- Enteric fever (4 marks)

**Q5- Causes and laboratory diagnosis of urinary tract infection (4 marks)**

Good luck

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الامتحان الشفوى والعملى : فى قسم الباثولوجيا الاكلينيكية