

جامعة طنطا - كلية الطب - قسم الميكروبيولوجيا الطبية والمناعه
امتحان مادة المناعه - دكتوراه الطب الطبيعى والتأهيل والروماتيزم
الزمن: ثلاث ساعات الدرجة 60 : التاريخ - ٢٠١٨-٨-١٢
أجب عن جميع الأسئلة التاليه

**1-Isotypes , Idiotypes &Allotypes ; define these .
(10 marks)**

2-Natural killer cells are important cells in the natural non specific immunity explain its mechanisms of action . (10 marks)

3-Immunomodulators are nowadays used in a large scale in the rheumatology therapy ; mention short account on it . (10 marks)

4-Inflammatory response is one of the different mechanisms of innate immunity ; enumerate its steps . (10 marks)

5-Systemic lupus erythematosus (SLE) is one of the common autoimmune diseases ;outlines the autoantibodies that we can find in these patients . (10 marks)

6-Rheumatoid arthritis is one of the common bone disfiguring diseases Give a short account on the predisposing factors for it. (10 marks)

(GOOD LUCK)

Head of the department

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