

(LM 021)**FEBRUARY 2018****Sub. Code: 1351****D.M. – RHEUMATOLOGY****Paper I – BASIC SCIENCES AND DIAGNOSTIC PROCEDURES IN
RHEUMATOLOGY AND CLINICAL IMMUNOLOGY*****Q.P.Code: 161351*****Time: Three Hours****Maximum: 100 Marks****I. Elaborate on:****(2 x 15 = 30)**

1. Structure, constituents, function and innervation of synovium. Formation of synovial fluid. Briefly describe synovial fluid analysis in different rheumatic diseases and principles and application of polarising microscopy.
2. Major histocompatibility complex (MHC) and antigen presentation, endogenous and exogenous antigen processing pathways. Role of Human leucocyte antigens (HLA) in susceptibility and pathogenesis of rheumatic diseases. Add a note on HLA typing.

II. Write notes on:**(10 x 7 = 70)**

1. IL-36.
2. Innate like lymphocytes.
3. Adipokines in rheumatic diseases.
4. Autoantibodies in SLE.
5. Non-coding RNA in autoimmunity.
6. T reg cells.
7. Immunoelectrophoresis.
8. Integrins.
9. Apoptosis and rheumatic diseases.
10. Synthesis, assembly and secretion of immunoglobulins.
