

(LN 021)

AUGUST 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 of Human adult articular cartilage. Elaborate on cartilage collagens and other extra cellular matrix components of cartilage. Add a note on chondrogenesis. Also write in short about culture models for studying chondrocyte metabolism.
2. Describe lymphocyte migration. Write about structure and organisation of primary and secondary lymphoid tissues.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Biology of Tumor Necrosis Factor  $\alpha$ .
2. T-regulatory cells.
3. Mast cells.
4. Metalloproteinases.
5. Nephelometry.
6. Anti-Ro52 antibodies.
7. Experimental models of systemic lupus erythematosus.
8. Inflammasomes.
9. Theories of autoimmunity.
10. Gender and autoimmunity.

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