

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[DM 0822]

AUGUST 2022

Sub. Code :1351

D.M. - CLINICAL IMMUNOLOGY AND 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. Draw structure of myofibril. Discuss the development of muscle and various rheumatic diseases associated with muscle abnormalities.
2. Write in detail about clinical research methods in rheumatic diseases.

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

1. Enchondral ossification.
2. Osteoclast in rheumatic diseases.
3. Autologous Chondrocyte transplantation.
4. Tissue Engineering in Arthritis.
5. Respiratory burst.
6. mTOR pathway.
7. Mechanisms of autophagy.
8. Mast cells in Arthritis.
9. Necroptosis and Ferroptosis.
10. Chemokines in HIV pathogenesis.
