Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on the following with clinical relevance:

1. Inflammosomes. 10
2. Death receptors 10
3. B cell receptors. 10
4. JAK/SYK kinases 10
5. Inflammation in osteoarthritis. 10
6. Osteoprotegerin & its ligands 10
7. NF-Kappa B pathways. 10
8. Animal models of Lupus. 10
9. Perforin gene mutations. 10
10. Clinical significance versus statistical significance. 10

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RHEUMATOLOGY

PAPER – II

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on:

1. Biologicals in Lupus.
   10

2. Adipokines - Biology & relevance.
   5+5

3. Proposed new classification criteria of Lupus - Compare & contrast with existing criteria.
   5+5

4. Treatment of pulmonary arterial hypertension - consensus & controversies.
   5+5

5. Genome wide association studies in Ankylosing spondylitis.
   10

   5+5

7. PET-CT in Rheumatology.
   10

8. Mesenchymal stem cell therapy in Rheumatology.
   10

9. IGRAS assay & challenges of TNF-Blockade Therapy in developing nations.
   5+5

10. IgG4 Disease – Spectrum & management.
    5+5
RHEUMATOLOGY
PAPER – III

Time : 3 hours
Max. Marks : 100

Attempt all questions in order.
Each question carries 10 marks.

Write short notes on:

1. Designer Steroids – Compare & contrast with existing ones. 5+5
2. Extremity MRI & ultrasonography in Rheumatology – Discuss appropriate applications. 5+5
3. Ro-antibody positive mother & fetus – management options in pregnancy. 10
4. CPPD disease – etiopathogenesis & management. 5+5
5. Differentials of granulomatosis with polyangiitis – Mention differentiating features of each. 10
6. Rotator cuff impingement syndrome & its management. 5+5
7. Rheumatological manifestations of leprosy. 10
8. Chronic pain syndromes – spectrum & management. 5+5
9. Primary immunodeficiencies with rheumatological manifestations. 10
10. Minor salivary gland biopsy in Sjogren’s & grades in histology. 10