RHEUMATOLOGY

PAPER – I

Time : 3 hours
Max. Marks : 100

Important instructions:
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw tables/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. IL-1 cytokine and receptor family and pathway involved in its secretion. 10

2. Gene expression profiling - definition, methods available, DNA arrays and RNA arrays. 2+2+4+2

3. Developmental sequence of B cells - stages, environment and surface markers. 3+3+4

4. Osteophyte - definition, sites, disease assessment and pathophysiology. 1+1+2+6

5. Mechanism of action of methotrexate - cellular entry, polyglutamation and enzyme inhibition. 2+3+5

6. Facet joints – anatomy, disease affliction, and presentation. 3+3+4

7. Soluble mediators in pathophysiology of RA. 10

8. Immunoglobulins in therapy of rheumatic diseases. 10

9. Classifications of amyloidosis. 10

10. Levels of evidence in clinical research. 10

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