



RHEUMATOLOGY

PAPER – I

RHM/D/14/43/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 table/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
