

FINAL EXAM  
 DECEMBER 2015

NATIONAL BOARD OF EXAMINATIONS

**RHEUMATOLOGY**
**PAPER – I**

RHEUM/D/15/43/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.	Extracellular matrix ECM of cartilage - organization, molecules involved, cell – ECM interactions.	2+5+3
2.	T cell subsets – effectors, effectors and transcriptions factors.	3+3+4
3.	Contribution of non-MHC genes to RA disease susceptibility.	10
4.	Leflunomide – mechanism of action, effect on immune cells and adverse effects.	3+3+4
5.	Structural adaptation of spine for stability and mobility.	5+5
6.	Laboratory strategies for assessment of protein expression.	10
7.	Denosumab in therapy of rheumatic diseases.	10
8.	Imaging methods and scoring systems for damage assessment in ankylosing spondylitis.	5+5
9.	Eosinophil physiology and pathology relevant to rheumatic disease.	5+5
10.	a) Principles of ultrasound. b) Delineate key findings in inflammatory joint disorders.	3+7

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