

FINAL EXAM  
DECEMBER 2012

NATIONAL BOARD OF EXAMINATIONS

RHEUMATOLOGY

PAPER – I

Time : 3 hours  
Max. Marks : 100

RHM/D/12/43/I

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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PAPER – II

Time : 3 hours  
Max. Marks : 100

RHM/D/12/43/II

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  |
| 6. Lunar trial – Results & interpretations.   | 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 |

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PAPER – III

Time : 3 hours  
Max. Marks : 100

RHM/D/12/43/III

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

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