

RHEUMATOLOGY

PAPER- I

Time : 3 hours
Max. Marks : 100

RHEUMA/D/11/43/I

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

Write short notes on:

1. Fundamental differences between transgenic and knockout mice. 10
2. Toll like receptors. 10
3. Structure and function of Bone Morphogenic Protein. 5+5
4. Sacro-iliac joint – anatomy and radiological features in common diseases. 4+6
5. Anti-nucleosome antibodies – target antigens and clinical applicability. 5+5
6. Immunogenetics of idiopathic inflammatory myositis – concepts and different entities. 5+5
7. IL-17 and Th-17 cells in inflammatory rheumatic diseases: 3+3+4
 - a) Cells and cytokines
 - b) Interactions
 - c) Clinical relevance
8. Micro-RNAs –concept and therapeutic relevance. 5+5
9.
 - a. Mean 2
 - b. Mode 2
 - c. Median 2
 - d. Sample size 4
10. Kinase inhibition and rheumatoid arthritis.
 - a. Principle 3
 - b. Various kinase inhibitors 3
 - c. Clinical relevance 4

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PAPER- II

Time : 3 hours
Max. Marks : 100

RHEUMA/D/11/43/II

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

Write short notes on:

1. Reactive arthritis. 10
2. How do you diagnose CPPD crystal deposition disease? What are the common risk factors? Outline the management strategies. 4+4+3
3. Ultrasound in Rheumatoid arthritis. 10
4. Autoimmune rheumatic diseases and vitamin D:
 - a. Concept 4
 - b. Epidemiology/extent of problem 4
 - c. Clinical relevance 2
5. Tumour necrosis factor associated periodic syndromes: 5+5
 - a. Entities
 - b. Clinical features
6. Enumerate acute phase reactants and describe role of C-Reactive Protein in health and disease. What are its advantages over ESR? 3+4+3
7. Prevalence of musculo-skeletal pain and various rheumatic diseases in India. 4+6
8. What is obstetric anti-phospholipid syndrome? How to stratify the risk? Write plan for management strategy. 3+4+3
9. Enumerate common causes of back pain. Write important clinical features for each cause. 3+7
10.
 - a. How do you evaluate the cardio-vascular risk factors in rheumatoid arthritis? 4+6
 - b. Mention current knowledge for addressing this problem.

RHEUMATOLOGY

PAPER- III

Time : 3 hours
Max. Marks : 100

RHEUMA/D/11/43/III

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

Write short notes on:

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| 1. | a. Trigger finger | 2 |
| | b. Neuropathic joint | 2 |
| | c. Carpel tunnel syndrome | 2 |
| | d. Enthisopathy around elbow joint | 2 |
| | e. Complications of intra-articular injections. | 2 |
| 2. | Various presentations of tubercular arthritis | 10 |
| 3. | Value of ASO testing. | 10 |
| 4. | What are the extra-articular manifestations of chronic arthritis in children? What are the important issues in reference to abnormalities of growth and development in JIA (Juvenile Idiopathic Arthritis)? | 4+6 |
| 5. | List "Emergencies in Rheumatology practice" and describe clinical presentations of pulmonary hemorrhage in lupus. | 6+4 |
| 6. | Mention the immunopathogenesis of sarcoidosis. Outline the management algorithm of acute sarcoidosis. | 5+5 |
| 7. | How will you evaluate interstitial lung disease in connective tissue disease? Outline the important pathological features. | 5+5 |
| 8. | Mention the lung manifestations of Wegener's granulomatosis. How does ANCA help in evaluating the disease? | 5+5 |
| 9. | What is osteo-necrosis? Describe the radiological changes. Mention the important risk factors. | 3+4+3 |
| 10. | What is autoimmunity? Mention the mechanisms of autoimmunity and its impact on tissue damage. | 3+3+4 |
