

**RHEUMATOLOGY****PAPER-I**Time: 3 hours  
Max. Marks: 100

RHM/D/19/43/I

**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:**

- a) What are Pattern Recognition Receptors? 3+7
  - b) Discuss membrane bound and cytoplasmic receptors and their role in immune inflammation.
- a) Discuss the host defenses against nasal infections. 5+5
  - b) How are they associated in inflammatory conditions?
- a) What is an osteocyte? 3+7
  - b) Write about its functions and role in inflammatory bone loss.
- a) What are all the auto antibodies in auto-immune hepatitis? 5+5
  - b) What are the rheumatological disorders, in which autoimmune hepatitis is seen?
- Describe the immunopathogenesis of chronic granulomatous diseases with illustrations. 10
- a) What are the clinical tests done for knee joint examination? 5+5
  - b) Name the Intra-articular treatment options for knee osteoarthritis.
- Rheumatic manifestations of Chikungunya fever and its immunopathogenesis. 5+5
- a) What is Palindromic Rheumatism? 5+3+2
  - b) How is it managed?
  - c) Discuss the role of early arthritis clinics.
- What is the role of microbiome in the immunopathogenesis of inflammatory bowel disease? 10
- What is the role of synovial biopsy in rheumatological disorders? 10

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