CLINICAL IMMUNOLOGY AND RHEUMATOLOGY PAPER-I

Time: 3 hours RHM/D/20/43/I

Max. Marks:100

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- 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.	Discuss development of synovial joint. What are the sources of nutrition for articular cartilage?	6+4
2.	Discuss the structure and function of skeletal muscle. Write short note on excitation-contraction coupling.	(3+2)+5
3.	Discuss different types of antigen presenting cells. Discuss the dendritic cell based therapy of arthritis.	5+5
4.	Discuss different dendritic cell subsets and the role they play in Rheumatic disease.	3+7
5.	Discuss about pro-inflammatory and regulatory monocytes. Draw flow diagram of autophagy pathway.	5+5
6.	Mechanism of calcineurin inhibitors and their role in lupus.	4+6
7.	Differences between diagnostic and classification criteria and its implication. Write short note on over-diagnosis and over-treatment.	7+3
8.	Write about proteinases and their role in RA and OA.	5+5
9.	Discuss IL-6 physiology and its implication in Rheumatic disease. Discuss anti IL-6 trials in systemic sclerosis.	6+4
10.	What is meta-analysis and what are the steps in doing it? Write short note on Forest plot.	7+3
