

November-1993

[ PR 316 ]

**D.M. DEGREE EXAMINATION**

(Higher Specialities)

Branch IX — Rheumatology

(New Regulations)

**Paper I — BASIC PRINCIPLES IN RHEUMATOLOGY  
AND IMMUNOLOGY**

Time : Three hours.

Maximum : 100 marks.

1. Discuss the immuno-pathogenesis of the tissue damage in S.L.E. (30)
  2. Describe briefly :
    - (a) The biochemical and clinical (*Rheumatologic*) features of osteomalacia. (10)
    - (b) Role of IL-2 and IL-2 receptor in rheumatic diseases. (10)
  3. Write short notes on :
    - (a) Anatomical basis of "button hole" deformity.
    - (b) Physiology of cartilage metabolism.
    - (c) Pathology of erythema nodosum.
    - (d) Biochemistry of acute inflammatory exudate.
    - (e) HLA class molecule in antigen presentation. (5×10=50)
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April-1996

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**D.M. DEGREE EXAMINATION**

*(Higher Specialities)*

**Branch IX - Rheumatology**

*(Old/New Regulations)*

**Paper I - BASIC PRINCIPLES IN RHEUMATOLOGY AND  
IMMUNOLOGY**

**Time: Three hours**

**Max. marks:100**

**Answer All Questions**

1. Discuss the immunopathogenesis of polymyositis and dermatomyositis. (30 )
2. Describe briefly:
  - (a) Animal models of systemic lupus erythematosus (10)
  - (b) Lipooxygenase pathway and its inhibitors. (10)
3. Write short notes on:
  - (a) T cell receptor
  - (b) Polarising light microscopy and its application in identification of crystals
  - (c) Matrix glycoproteins
  - (d) Transforming growth factor  $\beta$  in animals and human disease
  - (e) Pulmonary functions tests abnormality in scleroderma. (5x10=50)

D.M. DEGREE EXAMINATION  
(Higher Specialities)  
Branch IX - Rheumatology  
(Revised Regulations)

Paper I - BASIC SCIENCES & DIAGNOSTIC  
PROCEDURES IN RHEUMATOLOGY &  
CLINICAL IMMUNOLOGY.

Time: Three hours

Max.marks:100

Answer All Questions

1. Discuss the role of lymphokines in inflammation. (25)
2. Discuss the pathogenesis of rheumatoid arthritis. (25)
3. Write briefly on:
  - Thermography
  - Arthroscopy
  - (c) Principles of radioimmuno assay
  - (d) MRI in joint disorders
  - Raynaud's phenomenon. (5x10=50)

April-1998

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D.M. DEGREE EXAMINATION  
(Higher Specialities)  
Branch IX - Rheumatology  
(Revised Regulations)

Paper I - BASIC SCIENCES & DIAGNOSTIC  
PROCEDURES IN RHEUMATOLOGY &  
CLINICAL IMMUNOLOGY

Time: Three hours

Max.marks:100

Answer All Questions

1. Give a brief account of Immunogenetics.  
(25)
2. Discuss the aetiopathogenesis of reactive arthritis.  
(25)
3. Write briefly
  - (a) Scientific basis of Immunosuppressive vs Cytotoxic therapy in rheumatoid arthritis.
  - b) Importance of synovial fluid analysis in non-infective arthritis
  - (c) Antigen targets of anti-nuclear antibodies (ANAs)
  - (d) Pathology of Sjogren syndrome
  - (e) Arthrography.  
(5x10=50)

April-2000

[KB 021]

Sub. Code : 1351

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IX — Rheumatology

(Revised Regulations)

Paper I — BASIC SCIENCES AND DIAGNOSTIC  
PROCÉDURES IN RHEUMATOLOGY AND  
CLINICAL IMMUNOLOGY

Time : Three hours

Maximum : 100 marks

Answer ALL the questions

1. Discuss the role of Endothelium in the vascular events of Acute Inflammation. (25)
2. Discuss the diagnostic work up in Monoarticular Arthritis. (25)
3. Write short notes on : (5 × 10 = 50)
  - (a) Rheumatoid factor
  - (b) Arthroscopy
  - (c) Quantitative Bone Mineral Analysis
  - (d) Molecular Biology of Complement System
  - (e) Acute Phase Proteins in Rheumatic Disease