

April-2001

[KD 023]

Sub. Code : 1353

D.M. DEGREE EXAMINATION.

(Higher Specialities)

Branch IX — Rheumatology

(Revised Regulations)

Paper III — CLINICAL PHARMACOLOGY,
REHABILITATION SURGERY, SPECIAL
PROBLEMS RELATED TO RHEUMATIC DISEASES
PAEDIATRIC RHEUMATOLOGY, PREGNANCY
AND RHEUMATIC DISEASES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the major ethical issues that must be addressed in devising a clinical drug trial of a new NSAID (non steroidal anti inflammatory drug) in human subjects. How is a double blind cross over controlled trial done? (25)
2. The role of synovectomy in the management of knee arthritis. Indications — contraindications, results. (25)
3. Briefly discuss
 - (a) Corticosteroids use in the treatment of Rheumatoid arthritis.
 - (b) Bone scans in the investigation of arthritis.
 - (c) Complications and management of Dry eye and mouth.
 - (d) Bisphosphonates, mechanism of action and adverse effects
 - (e) George Still and his contribution to rheumatology. (5 × 10 = 50)

November-2001

[KE 023]

Sub. Code : 1353

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch IX — Rheumatology

**Paper III — CLINICAL PHARMACOLOGY,
REHABILITATION SURGERY, SPECIAL PROBLEMS
RELATED TO RHEUMATIC DISEASES —
PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Marks for each question are given in brackets.

1. Discuss the ILAR classification of Juvenile Rheumatic Diseases. How does it differ from the American and European criterias? (30)
2. Discuss disease modifying anti osteoarthritic therapies. (30)
3. Write short notes on :
 - (a) Drugs which increase urate levels. (10)
 - (b) Safety of anti rheumatic drugs in Pregnancy. (10)
 - (c) Cox 2 Concept. (10)
 - (d) Hand joint replacement surgery. (10)

March-2002

[KG 023]

Sub. Code : 1353

D.M. DEGREE EXAMINATION

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(Revised Regulations)

Branch IX — Rheumatology

**Paper III — CLINICAL PHARMACOLOGY,
REHABILITATION SURGERY, SPECIAL PROBLEMS
RELATED TO RHEUMATIC DISEASES –
PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Marks for each question are given in brackets.

1. Discuss the management of End Stage Joint Disease. (30)
2. Discuss the management of SLE in a pregnant patient. (30)
3. Write short notes on :
 - (a) Childhood dermatomyositis. (10)
 - (b) Stills disease. (10)
 - (c) Physiotherapy for OA knee. (10)
 - (d) Sulfasalazine. (10)

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REHABILITATION SURGERY, SPECIAL PROBLEMS
RELATED TO RHEUMATIC DISEASES —
PAEDIATRIC RHEUMATOLOGY, PREGNANCY
AND RHEUMATIC DISEASES

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

A. Essay Questions.

(2 × 15 = 30)

(1) Discuss on classification and criteria of childhood arthritis.

(2) Discuss on rheumatological manifestation of HIV infection.

B. Short notes :

(10 × 5 = 50)

- (1) Steroid induced osteoporosis
- (2) Physiotherapy in osteoarthritis
- (3) Oral anti-coagulant
- (4) Acilomophenac
- (5) Methotroxate-pulmonary toxicity
- (6) Eye and mouth care in sjogern's syndrome
- (7) Mycophendate mefatil
- (8) SLE and pregnancy
- (9) Henoch-Schdin purpura-management.
- (10) Adult onset stills disease.

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II. Short notes : (10 × 5 = 50)

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RELATED TO RHEUMATIC DISEASES —
PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Classification of Juvenile inflammatory arthritis. List common differential diagnosis and management issues.

(2) Describe the health benefits of Omega - 3 fatty acids in systemic autoimmune rheumatic diseases. Briefly mention their pharmacological action.

- (a) Multifocal sterile osteomyelitis
- (b) Hip protectors
- (c) Utility of arthroscopy in Rheumatology – List definitive indications
- (d) Endothelin – 1 receptor antagonist
- (e) Complex regional pain syndromes (CRPS)
- (f) Discovery of Aspirin
- (g) Management of drug induced gastropathy
- (h) Splinting the Rheumatology practice
- (i) Place of antibiotics in Rheumatology
- (j) Cox-2 selectivity.

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RELATED TO RHEUMATIC DISEASES —
PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Discuss in detail about the pharmacology pharmacokinetics, uses and side effects of methotrexate in rheumatology. Describe the suggested guidelines for monitoring the hepatic and pulmonary toxicities of methotrexate. (20)

(2) Discuss the aetiopathogenesis clinical features and current management of Kawasaki disease. (15)

(3) Critically discuss the use and abuse of steroids in Rheumatology. (15)

II. Short notes : (6 × 5 = 30)

(a) Anti Rheumatic medications during pregnancy.

(b) Toxicity of d-Penicillamine.

(c) The use of dapsone in Rheumatic diseases.

(d) Complication of systemic onset juvenile rheumatoid arthritis.

(e) Haemophilia and the joints – management.

(f) Thomas Sydenham's contribution to Rheumatology.

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D.M. DEGREE EXAMINATION.

Branch IX — Rheumatology

Paper III — CLINICAL PHARMACOLOGY,
REHABILITATION SURGERY SPECIAL PROBLEM
RELATED TO RHEUMATIC DISEASES —
PAEDIATRIC RHEUMATOLOGY, PREGNANCY
AND RHEUMATIC DISEASES

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay questions :

1. Write changing concepts of non-steroidal anti inflammatory drugs. (20)
2. Describe management of Juvenile idiopathic arthritis. (15)
3. Discuss rehabilitation of the following : Hip and Knee arthroplasty. (15)

II. Short notes : (6 × 5 = 30)

- (a) Disease modifying anti rheumatic drugs (DMARDs) in pregnancy.
 - (b) Reflex sympathetic dystrophy.
 - (c) Orthotic management in rheumatology.
 - (d) Evaluation of prosthetic knee joint.
 - (e) Infections in systemic Lupus Erythematosus (SLE).
 - (f) Management of Takayasu's arteritis.
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August 2008

[KT 023]

Sub. Code: 1353

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch IX – Rheumatology

**Paper III – CLINICAL PHARMACOLOGY, REHABILITATION
SURGERY SPECIAL PROBLEMS RELATED TO
RHEUMATIC DISEASES – PAEDIATRIC
RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES**

Q.P. Code: 161353

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss biologic therapies for systemic lupus erythematosus.
2. Describe the various nonpharmacologic treatment options in osteoarthritis.

II. Write short notes on:

10 X 6 = 60 Marks

1. Disease modifying antirheumatic drugs (DMARDs) during lactation.
 2. Disease modifying osteoarthritic drugs (DMOADs)
 3. Unicompartamental knee arthroplasty.
 4. Vertebral Kyphoplasty.
 5. RANK-RANK ligand and its therapeutic manipulation in osteoporosis.
 6. Glucocorticoid induced osteoporosis.
 7. Sitaxsentan.
 8. Systemic onset Juvenile Idiopathic Arthritis.
 9. Intra-articular therapies.
 10. Macrophage activation Syndrome.
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August 2009

[KV 023]

Sub. Code: 1353

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch IX – RHEUMATOLOGY

(Revised Regulations)

**Paper III – CLINICAL PHARMACOLOGY, REHABILITATION
SURGERY, SPECIAL PROBLEMS RELATED TO RHEUMATIC
DISEASES – PAEDIATRIC RHEUMATOLOGY, PREGNANCY
AND RHEUMATIC DISEASES**

Q.P. Code: 161353

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Discuss in detail about the immunological and clinical changes in systemic lupus erythematosus during pregnancy. Briefly mention the differential diagnosis of flare up of lupus nephritis in pregnancy and its management strategies.
2. Describe in detail about the mechanism of action, potential uses, side effects and major clinical trials of Rituximab in various rheumatological disorders. Discuss the problem and prospects of its use in India.

II. Write short notes on:

10 x 6 = 60

1. Core sets of outcome measures in clinical trials of ankylosing spondylitis.
2. Current role of synovectomy in rheumatic diseases.
3. Periodic fever syndromes in children.
4. Management of polyarticular juvenile idiopathic arthritis.
5. Rheumatological manifestations of hepatitis B infection.
6. Diagnosis of Kawasaki disease.
7. Management of neonatal lupus syndrome.
8. Shin splints.
9. Primary cementless total hip arthroplasty.
10. Abatacept.

AUGUST 2010

[KX 023]

Sub. Code: 1353

D.M. DEGREE EXAMINATION

**(Super Specialities)
(Revised Regulations)**

Branch IX – RHEUMATOLOGY

**Paper III – CLINICAL PHARMACOLOGY, REHABILITATION
SURGERY, SPECIAL PROBLEMS RELATED TO RHEUMATIC
DISEASES – PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES**

Q.P. Code: 161353

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss classification and Epidemiology of Juvenile Arthritis.
2. Discuss current concepts of Neuropsychiatric Lupus.

II. Write short notes on:

10 X 6 = 60 Marks

1. Bosentan.
2. Radiology scoring in RA.
3. Disease modifying drugs in Osteoarthritis.
4. Principles of arthritis surgery.
5. Uveitis in spondyloarthropathies.
6. Kawasaki's disease.
7. Strontium Ranelate.
8. Acid Loading Test.
9. Steroid induced osteoporosis.
10. Rehabilitation in Juvenile idiopathic arthritis.

August 2011

[KZ 023]

Sub. Code: 1353

**DOCTORATE OF MEDICINE (D.M.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH IX – RHEUMATOLOGY

**CLINICAL PHARMACOLOGY, REHABILITATION SURGERY, SPECIAL
PROBLEMS RELATED TO RHEUMATIC DISEASES – PAEDIATRIC
RHEUMATOLOGY, PREGNANCY AND RHEUMATIC DISEASES**

Q.P. Code: 161353

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss in detail about the principles of arthritis surgery.	11	35	15
2. Discuss the epidemiology, etiology, pathogenesis, Clinical features, diagnosis and treatment of familial Mediterranean fever.	11	35	15

II. Write notes on :

1. Rheumatic diseases and pregnancy.	4	10	7
2. Joint play techniques.	4	10	7
3. Stinchfield test.	4	10	7
4. Transient osteoporosis of the hip.	4	10	7
5. Complex regional pain syndrome (Type I).	4	10	7
6. Talo-crural joint arthritis.	4	10	7
7. Leeds Early Arthritis Project (LEAP).	4	10	7
8. Child Health Assessment Questionnaire.	4	10	7
9. Efalizumab.	4	10	7
10. Proteomics in antiphospholipid syndrome.	4	10	7

[LB 023]

AUGUST 2012

Sub. Code: 1353

D.M – RHEUMATOLOGY

**Paper – III CLINICAL PHARMACOLOGY, REHABILITATION SURGERY,
SPECIAL PROBLEMS RELATED TO RHEUMATIC DISEASES – PAEDIATRIC
RHEUMATOLOGY, PREGNANCY AND RHEUMATIC DISEASES**

Q.P. Code: 161353

**Time: 3 hours
(180 Min)**

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss criteria, cause, pathogenesis, clinical features, investigations and treatment of Juvenile Dermatomyositis.	16	35	15
2. Write essay on criteria, epidemiology, clinical features, investigations and treatment of Henoch – schonlein purpura.	16	35	15

II. Write notes on:

1. What are neonatal lupus syndromes? Discuss in brief.	4	10	7
2. What are the common causes of forefoot pain?	4	10	7
3. What are the causes of arthritis of the temporomandibular joint? Discuss its internal derangement.	4	10	7
4. How can you divide scleritis? Discuss scleritis in relation to rheumatic diseases.	4	10	7
5. What are the skin manifestations of sjogren's syndrome?	4	10	7
6. How will you classify panniculitis?	4	10	7
7. What are the cardiac manifestations of Rheumatoid Arthritis?	4	10	7
8. What are the respiratory manifestations of Relapsing Polychondritis?	4	10	7
9. Isotonic and Isometric Exercises.	4	10	7
10. Febuxostat.	4	10	7

D.M. – RHEUMATOLOGY
Paper – III CLINICAL PHARMACOLOGY, REHABILITATION
SURGERY, SPECIAL PROBLEMS RELATED TO RHEUMATIC
DISEASES – PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES

Q.P.Code: 161353

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe the genetics, pathogenesis, clinical manifestations, investigations, diagnosis and treatment of hyperimmunoglobulinemia D with recurrent fever syndrome.
2. Describe the proposed criteria, cause, pathogenesis, clinical features, diagnosis, diagnostic tests and treatment of Calcium Pyrophosphate Dihydrate (CPPD) deposition disease.

II. Write notes on:

(10X7=70)

1. What are the cytokines involved in reactive arthritis? Add a note on them.
2. What are the major postulated candidate genes in osteoarthritis?
3. What is Alefacept? Add a note on it.
4. What is Freiberg's disease? Write briefly on it.
5. What is Yunus and Masi criteria for childhood fibromyalgia?
6. What is trigger point therapy? Add a note on it.
7. What are the newer modalities of treatment of osteonecrosis?
8. How many types of osteogenesis imperfecta are there? Name them.
9. What is juvenile fibromatosis?
10. What is the molecular pathology of vascular type of Ehlers-Danlos syndrome?

[LF 023]

AUGUST 2014

Sub. Code: 1353

D.M. – RHEUMATOLOGY

**Paper III – CLINICAL PHARMACOLOGY, REHABILITATION SURGERY,
SPECIAL PROBLEMS RELATED TO RHEUMATIC DISEASES –
PAEDIATRIC RHEUMATOLOGY, PREGNANCY AND
RHEUMATIC DISEASES**

Q. P. Code: 161353

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail about the criteria, aetio-pathogenesis, investigations and treatment of Sjogren's syndrome.
2. Write an essay on Eye and Rheumatic Diseases.

II. Write notes on:

(10 x 7 = 70)

1. Hand and Wrist surgery in Rheumatoid arthritis
2. Physiotherapy of Osteoarthritis
3. Antiphospholipid Syndrome in Pregnancy
4. Childhood Scleroderma
5. Tumour Necrosis Factor Receptor -Associated Periodic Syndrome (TRAPS)
6. Vaccinations in Rheumatic Diseases
7. Pauciarticular Juvenile Idiopathic Arthritis
8. Myofascial pain syndromes
9. Non-steroidal Anti-inflammatory drugs in kidney disease
10. Kawasaki disease.
