Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY

(COMMON FOR BOTH OLD & NEW REGULATION)

Monday, August 07, 2006

Time available: 3 Hours. Maximum Marks: 80

Answer Section "A" and Section "B" in TWO SEPARATE ANSWER BOOKS.

SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS

1. Define open fracture. What are the principles in the management of an open fracture? Enumerate its complications.

(2+5+3 = 10 marks)

2. Enumerate 6 deformities that occur in a foot. Describe the deformities seen on congenital talipes Equnovarus. Discuss the principles in its management.

(3+3+4 = 10 marks)

3. Write short notes on:

(5×4 = 20 marks)

3A. Myositis ossificans.
3B. Foot drop.
3C. Osteochondroma.
3D. Smiths fracture.

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Discuss the clinical features, diagnosis and management of polyarthritis nodosa (PAN).

OR

Discuss the clinical features, diagnosis and management of Psoriatic arthritis.

(4+3+3 = 10 marks)

5. Discuss the pathogenesis, clinical features and management of progressive systemic sclerosis.

OR

Enumerate the aetiology, clinical features and management of Gout.

(3+4+3 = 10 marks)

6. Write short notes on any FOUR of the following:

6A. Giant cell arteritis.
6B. Rheumatoid factor.
6C. Felty's syndrome.
6D. Clinical features of systemic lupus erythematosis.
6E. CREST syndrome.

(5×4 = 20 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: NEUROLOGICAL SCIENCES
(COMMON FOR BOTH OLD & NEW REGULATION)

Tuesday, August 08, 2006

Time available: 3 Hours. Maximum Marks: 80

Answer any FOUR questions. Each question carries 20 marks.

1. Draw and describe the anatomy of pyramidal tracts and write a long account on clinical features and management of spasticity.

2. Enumerate the causes of chronic Meningitis. Write a brief note on Tubercular meninigitis.

3. Etiology, clinical features and management of Myasthenia gravis.

4. Write short notes on:

4A. Internuclear ophthalmoplegia.

4B. Bells palsy.

4C. Conductive aphasia.

5. Write short notes on:

5A. SSPE.

5B. Meningovascular syphilis.

5C. Progressive muscular atrophy.

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCE
(COMMON FOR BOTH OLD & NEW REGULATION)

Wednesday, August 09, 2006

Time available: 3 Hours. Maximum Marks: 80

- **Answer ALL the questions.**
- **Essay Questions.**

1. Write the features of a multiple sclerosis patient. Describe the management of a multiple sclerosis patient predominantly with ataxia.

(4+6 = 10 marks)

2. Describe the features of a spastic diplegic. Discuss the physiotherapy management of a spastic diplegic child.

(4+6 = 10 marks)

- **Write short notes on:**

3A. Describe a hemiplegic gait and its deviations.
3B. Discuss the basic concepts of bobath approach.
3C. Describe the management of a child with Erb's palsy.
3D. Describe the physiotherapy management of a 40 year old female affected by Gullian Barre syndrome.
3E. Describe the gait training of a complete L1 level spinal cord injury patient.
3F. Describe the care of an anesthetic foot.
3G. Explain the energy conservation techniques for a housewife with myasthenia gravis.
3H. What is orthostatic hypotention? How do you manage it?

(5×8 = 40 marks)

- **Brief answer questions:**

4A. Flexor synergy pattern in upper limb.
4B. What is tonic labyrinthine reflex?
4C. What are associated reactions?
4D. Mention four methods to reduce rigidity.
4E. Describe the Haehn and Yahr scale for parkinsonism.
4F. Advantages of Nerve Conduction Velocity over Strength Duration curve.
4G. Mention the types of neurogenic bladders.
4H. Define coma.
4I. Mention four methods to prevent contractures.
4J. Two facilitatory mechanisms to initiate muscle contraction and the physiological basis behind it.

(2×10 = 20 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY

(COMMON FOR BOTH OLD & NEW REGULATION)

Thursday, August 10, 2006

Time available: 3 Hours. Maximum Marks: 80

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1. Answer in detail:

1A. Describe the management following fracture neck of femur, adding a note on possible complications.

1B. Brief the types of Inter vertebral Disc Prolapse. Outline in detail Mckenzie principle of management for lumbar disc herniation with radiculopathy.

((8+2)+(3+7) = 20 marks)

2. Answer in short notes:

2A. Special tests in CDH.

2B. Management of VIC.

2C. Rehabilitation following extensor tendon injury in thumb.

2D. Stages of septic arthritis.

2E. Clinical features of Periarthritis shoulder.

2F. Thoracic outlet syndrome-Types and clinical features.

2G. Management of lower extremity deformities in poliomyelitis.

2H. Parts and Indications for below knee prosthesis.

(5×8 = 40 marks)

3. Short Answers:

3A. Shoulder impingement tests (any two).

3B. Straight leg raise test.

3C. Synovitis.

3D. Two clinical features of Tarsal Tunnel syndrome.

3E. Cubital Tunnel syndrome.

3F. Types of Osteotomy.

3G. Knuckle Bender Splints.

3H. Involucrum and cloacae.

3I. Non–pyogenic arthritis.

3J. Hangman's fracture.

(2×10 = 20 marks)