

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY****(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, May 29, 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. Classify shoulder dislocation. Mention four diagnostic clinical features of this condition. Discuss the management of anterior dislocation of the shoulder.

(2+4+4 = 10 marks)

2. Describe the diagnostic tests used for ligamentous and meniscal injuries of the knee. Discuss the postoperative management following reconstruction of a torn anterior cruciate ligament.

(4+3+3 = 10 marks)

3. Write short notes on:

- 3A. Equinus deformity.
3B. Klumpke's palsy.
3C. Painful arc syndrome.
3D. SACH foot.

(5×4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS✍ **Answer question No. 4 (mandatory) and TWO of the remaining questions.**

4. Write notes on any **FOUR** of the following:

- 4A. CREST Syndrome.
4B. Still's Disease
4C. Osteoporosis
4D. Septic arthritis
4E. Clinical features and investigations of poly arteritis nodosa.

(4×5 = 20 marks)

5. What is spondyloarthropathy? Enumerate different types and clinical feature of any one.

(10 marks)

6. Clinical features, investigations and medical management of rheumatoid arthritis.

(10 marks)

7. Write down the causes and management of osteoarthritis.

(10 marks)



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

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

Tuesday, May 30, 2006

Time available: 3 Hours.

Maximum Marks: 80

✍ **Answer any FOUR questions. Each question carries 20 marks.**

1. Etiology, clinical features and management of multiple sclerosis.
2. Enumerate the causes of chronic meningitis, write a brief note of tubercular meningitis.
3. Etiology, clinical features and management of acute polymyositis.
4. Write short notes on:
 - 4A. Pseudo bulbar palsy.
 - 4B. Chronic subdural haematoma.
 - 4C. Wilson disease.
5. Write short notes on:
 - 5A. ALS.
 - 5B. Rabies.
 - 5C. Alcoholic polyneuropathy.



MANIPAL ACADEMY OF HIGHER EDUCATION

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THIRD YEAR B.P.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCE
(COMMON FOR BOTH OLD & NEW REGULATION)**

Wednesday, May 31, 2006

Time available: 3 Hours.

Maximum Marks: 80

✍ **Answer ALL the questions.**✍ **Essay questions:**

1. What are the causes of cerebellar dysfunction? Mention the clinical features of cerebellar dysfunction and explain the management of a patient with cerebellar dysfunction.

(2+2+6 = 10 marks)

2. Discuss spinal cord injuries in terms of:

2A. Causes.

2B. Clinical features.

- 2C. Ambulation training for a 30-year old T-10 level paraplegic patient.

(2+2+6 = 10 marks)

✍ **Short notes:**

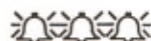
- 3A. Blood supply of brain.
3B. Examination of optic nerve.
3C. Principles of Brunnstorm approach.
3D. Principles of management of spastic cerebral palsy.
3E. Physiotherapy management of rigidity.
3F. Transverse myelitis.
3G. Acute phase management of GBS.
3H. Care of anesthetic foot.

(5×8 = 40 marks)

✍ **Brief answer questions:**

- 4A. Mention cortical sensations.
4B. Signs of Increased intra cranial pressure.
4C. Strategies of postural control.
4D. Gower's sign.
4E. Risk factors of stroke.
4F. Mention any four principles of PNF.
4G. Babinski sign.
4H. Mention any Physiotherapy treatment approaches in Neurology.
4I. Mention any four abnormal gaits in neurology.
4J. Uses of tilting table in neurological Physiotherapy.

(2×10 = 20 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

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THIRD YEAR B.P.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Thursday, June 01, 2006

Time available: 3 Hours.

Maximum Marks: 80

1. Essay questions:

- 1A. Describe distribution of ulnar nerve. Explain pathomechanics of claw hand deformity and its management.
- 1B. Discuss the role of physiotherapy in the management of fracture mid 1/3 of femur treated by intramedullary nailing.

 $((3+2+5)+10 = 20 \text{ marks})$ **2. Short notes:**

- 2A. Intrinsic and extrinsic factors in sports injury. (5 marks)
- 2B. Zones of flexor tendon injury. (5 marks)
- 2C. What is spinal shock? Mention the clinical features in stage of spinal shock. (1+4 = 5 marks)
- 2D. Role of exercises in spinal canal stenosis. (5 marks)
- 2E. Clinical features and complications of septic arthritis of knee. (2½+2½ = 5 marks)
- 2F. Management of tennis elbow. (5 marks)
- 2G. Post-operative physiotherapy for recurrent dislocation of shoulder. (5 marks)
- 2H. AK stump management. (5 marks)

3. Short answers:

- 3A. Two tests for anterior cruciate ligament injury.
- 3B. Types of meniscal tear.
- 3C. Common lower limb deformities in post-polio residual paralysis.
- 3D. Describe swan-neck deformity.
- 3E. Lower limb adverse neural tissue tension test.
- 3F. Clinical features of pronator teres syndrome.
- 3G. Position for arthrodesis of shoulder.
- 3H. Indications for total hip replacement.
- 3I. Mention types of amputations in foot.
- 3J. Types of cervical collar.

 $(2 \times 10 = 20 \text{ marks})$ 