

✓ MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2009

**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, June 08, 2009

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

✍ **Answer SECTION "A" and SECTION "B" in two separate answer books.**

SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS

1. Discuss the clinical features of a case of intracapsular fracture neck femur and its management in a 78 year old. What are the complications expected in a case of fracture neck of femur?
(10 marks)

2. Enumerate the components of deformity in a case of Idiopathic Club foot. How will you manage a child aged 2 years, with club foot?
(10 marks)

- 3A. Foot Drop
- 3B. De Quervains Disease
- 3C. Sequestrum
- 3D. Gout.
(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Classify polyarthritis. Discuss the clinical features, diagnosis and management of Ankylosing spondylitis.
(2+3+2+3 = 10 marks)

- OR**
- Classify vasculitis. Discuss the clinical features, diagnosis and management of polyarthritis nodosa (PAN)
(2+3+2+3 = 10 marks)

5. Discuss the aetiopathogenesis, clinical features and management of secondary osteoarthritis.
(4+3+3 = 10 marks)

- OR**
- What is osteoarthritis? Discuss aetiopathogenesis Clinical features, diagnosis and management of osteoarthritis.
(2+3+2+3 = 10 marks)

6. Write short notes on any **FOUR** of the following.
 - 6A. Disease modifying antirheumatic drugs.
 - 6B. Rheumatoid factor.
 - 6C. Chondrocalcinosis
 - 6D. Raynaud's phenomenon
 - 6E. Sjogren's syndrome.

(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2009****SUBJECT: NEUROLOGICAL SCIENCES
(COMMON FOR BOTH OLD & NEW REGULATION)**

Tuesday, June 09, 2009

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

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

1. Multiple sclerosis – Types, etiology and management.
2. What is meningitis? Describe the types, clinical features and management of the same.
3. Myasthenia Gravis – Etiology, clinical features, management.
4. Short notes:
 - 4A. Carpal tunnel syndrome.
 - 4B. Wilsons disease.
 - 4C. Chronic subdural haematoma.
 - 4D. Role of TENS in CRPS (Complex regional pain syndrome)
5. Short notes:
 - 5A. Motor Neuron disease
 - 5B. Tuberculoma
 - 5C. CJD
 - 5D. Bells Palsy.



MANIPAL UNIVERSITY

THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2009

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

Wednesday, June 10, 2009

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

☞ Answer all the questions.

1. Essay Questions:

1A. What are the causes for cerebellar dysfunction? Add a note on assessment and physiotherapy management of patient with cerebellar dysfunction.

(2+4+4 = 10 marks)

1B. Define polyneuropathy. Explain the clinical features and management of Guillain Barre Syndrome.

(2+3+5 = 10 marks)

2. Short notes:

- 2A. Neurological evaluation for comatose patient.
- 2B. Recovery stages of Brunnstrom.
- 2C. Management techniques of spasticity following stroke.
- 2D. Bells palsy.
- 2E. Evaluation of Activities of Daily Living.
- 2F. Oromotor training in cerebral palsy.
- 2G. Erb's palsy.
- 2H. Physiotherapy management of DMD in ambulatory stage.

(5×8 = 40 marks)

3. Brief Answers:

- 3A. Decerebrate and decorticate rigidity.
- 3B. Stages of Motor Relearning Program.
- 3C. Dissociated sensory loss.
- 3D. Uses of tilting table.
- 3E. Festinating gait.
- 3F. Features of hand in Amyotrophic Lateral Sclerosis.
- 3G. Mention any two clinical features of Multiple sclerosis.
- 3H. Ossermann's classification of myasthenia gravis.
- 3I. Heterotrophic ossification.
- 3J. Mention any four reactions of vojta.

(2×10 = 20 marks)



MANIPAL UNIVERSITY

THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY (COMMON FOR BOTH OLD & NEW REGULATION)

Thursday, June 11, 2009

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL questions.**

✍ **Essays questions:**

1. Describe Hip dislocations under the following:

1A. Definition.

1B. Classification.

1C. Clinical features and diagnosis of posterior hip dislocation.

1D. Physiotherapy management of posterior hip dislocation.

(1+1+3+5 = 10 marks)

2. Describe above knee Amputation under the following:

2A. Assessment.

2B. Post operative Physiotherapy management.

2C. What are the gait deviations commonly seen and what are the measures to correct them.

(3+4+3 = 10 marks)

3. **Short Notes:**

3A. IT band syndrome- clinical features and management.

3B. Physiotherapy management for V.I.C.

3C. What are the complications following fracture neck of femur and add a note on the management?

3D. Dequervains disease.

3E. Joint protection principles in Rheumatoid arthritis.

3F. Rationale for flexion and extension exercises in spinal pathologies.

3G. Physiotherapy management of club foot.

3H. Splinting for radial and median nerve injuries.

(5×8 = 40 marks)

4. **Brief Answers:**

4A. What is triple arthrodesis?

4B. What is the capsular pattern for shoulder joint?

4C. Sunderland's classification for nerve injury.

4D. Classification for cerebral palsy.

4E. What is scalenius anticus syndrome?

4F. What is spondylolysis and spondylosis?

4G. Spurling's test.

4H. Zones of flexor tendon injury.

4I. Measurement of True Limb Length.

4J. ULTT1.

(2×10 = 20 marks)

