

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2016****SUBJECT: ORTHOPAEDICS & RHEUMATOLOGY/CLINICAL ORTHOPAEDICS & RHEUMATOLOGY
(COMMON FOR 2008 REGULATION/2011 SCHEME)**

Thursday, December 15, 2016

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

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

SECTION "A": ORTHOPAEDICS/CLINICAL ORTHOPAEDICS: 40 MARKS

1. Describe the clinical features and management of anterior dislocation of the shoulder. (10 marks)
2. Describe the clinical features and management of chronic osteomyelitis. (10 marks)
3. **Write short notes on:**
 - 3A. Spastic diplegia and role of physiotherapy
 - 3B. Carpal tunnel syndrome
 - 3C. Ankle foot orthosis
 - 3D. Gout(5 marks × 4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

1. **Write short notes on any FOUR of the following five questions:**
 - 1A. What is Felty's syndrome? Mention extra articular manifestation of Rheumatoid Arthritis.
 - 1B. Enlist the various seronegative spondyloarthropathies. Mention four differences between Ankylosing spondylitis and Rheumatoid Arthritis.
 - 1C. Enumerate the causes of Avascular Necrosis and its management.
 - 1D. Discuss the clinical features and management of osteoporosis.
 - 1E. What is Raynaud's phenomenon? List the conditions producing Raynaud's phenomenon.(5 marks × 4 = 20 marks)

✍ **Answer any TWO FULL questions out of the following three questions:**

- 2A. Discuss calcium metabolism.
- 2B. Mention clinical features of osteomalacia.
- 2C. Discuss investigation and management of osteomalacia.

(4+3+3 = 10 marks)

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MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2016

SUBJECT: NEUROSCIENCES
(2008 REGULATION/2011 SCHEME)

Friday, December 16, 2016

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

Answer any FOUR questions.

1. Discuss the clinical features and diagnosis and management of a 60 year old right-handed male presenting with acute left middle cerebral artery territory ischemic stroke that occurred 7 days ago.

(20 marks)

2. Discuss the causes, assessment, management and rehabilitation of a 15-year-old male presenting with pure motor proximal lower and upper limb weakness of 2 years duration.

(20 marks)

3. Discuss the occupational consequences and management of a 20-year old male presenting with poorly controlled temporal lobe epilepsy.

(20 marks)

4. **Write short notes on:**

- 4A. Progressive supranuclear palsy
- 4B. Carpal tunnel syndrome
- 4C. Complex regional pain syndromes
- 4D. Bell's palsy

(5 marks × 4 = 20 marks)

5. **Write short notes on:**

- 5A. Subacute combined degeneration
- 5B. Neuritic leprosy
- 5C. Duchenne muscular dystrophy
- 5D. Obstructive sleep apnea syndrome

(5 marks × 4 = 20 marks)



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MANIPAL UNIVERSITY

THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2016

**SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(2008 REGULATION)**

Saturday, December 17, 2016

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

☞ **Answer ALL questions.**

1. Essay questions:

- 1A. Describe the role of physical therapist in the management of the patient with brain injury. (10 marks)
- 1B. Classify peripheral nerve injuries. Mention the causes for sciatic nerve injury and physiotherapy management for axonotmesis of a patient who managed conservatively. (2+8 = 10 marks)

2. Write short notes on:

- 2A. Principles of NDT approach
- 2B. Role of spinal brace in muscular dystrophy
- 2C. Elaborate physiotherapy management for Parkinson's patient on Hoehn-Yarr Stage III and IV
- 2D. Write on brown-sequard syndrome
- 2E. Define spasticity and write on physiotherapy management
- 2F. Explain physiotherapy management for shoulder subluxation following stroke
- 2G. Write on facilitation techniques described by Roods approach
- 2H. Write a note on frenkels exercise

(5 marks × 8 = 40 marks)

3. Brief answers:

- 3A. What is Homonymous hemianopia?
- 3B. What is Babinski sign?
- 3C. Define Rigidity.
- 3D. What is Coup-Counter-coup injury?
- 3E. Mention any four clinical features of Pseudo-bulbar palsy.
- 3F. What is Crouch gait?
- 3G. What is Spastic bladder?
- 3H. Name four ankle foot orthosis.
- 3I. Mention any two bedside assessments for muscle tone.
- 3J. Define Dysmetria.

(2 marks × 10 = 20 marks)

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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2016

**SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(2008 REGULATION)**

Time: 10:00-13:00 Hrs.

Tuesday, December 20, 2016

Maximum Marks: 80

☞ **Answer ALL questions.**

1. Essay questions:

- 1A. Explain in detail physical therapy management for frozen shoulder according to its clinical stages.
- 1B. Describe in detail a comprehensive rehabilitation program for patients with rheumatoid arthritis.

(10 marks × 2 = 20 marks)

2. Write short notes on:

- 2A. Dot down the physical therapy for acute lateral ankle sprain.
- 2B. Write a note on physical therapy management of lumbar spondylosis.
- 2C. Mention the causes for spondylolisthesis.
- 2D. What are the Laboratory investigations in osteomyelitis?
- 2E. Mention the types of congenital deformities of upper limb and its physiotherapy management.
- 2F. Mention the clinical features of patella femoral pain syndrome.
- 2G. Write in detail special tests for anterior shoulder instability.
- 2H. Add a note on physical therapy management for cubital tunnel syndrome.

(5 marks × 8 = 40 marks)

3. Brief answers:

- 3A. What is Hawkin's Kennedy test?
- 3B. What is cheralgia paresthetica?
- 3C. Mention the radiographic findings in osteoarthritis of knee.
- 3D. Mention two clinical tests for congenital dislocation of hip.
- 3E. What is Erb's paralysis?
- 3F. What is Tarsal tunnel syndrome?
- 3G. Define spondylosis and spondylolysis.
- 3H. Name the laterasl ligaments of ankle.
- 3I. Define fracture.
- 3J. What is intersection syndrome?

(2 marks × 10 = 20 marks)

