

# MANIPAL UNIVERSITY

**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2010**

**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY**

**(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, December 13, 2010

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

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

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

1. Classify nerve injuries. What is Tinels' sign Treatment options for a case of foot drop?  
(10 marks)
2. Define dislocation. What are its complications? Describe the clinical features of anterior dislocation of shoulder joint.  
(10 marks)
- 3A. Clinical features of rickets.
- 3B. Equinus deformity.
- 3C. Hand deformities in Rheumatoid Arthritis.
- 3D. Painful arc syndrome.  
(20 marks)

**SECTION "B": RHEUMATOLOGY: 40 MARKS**

4. Write short notes on any FOUR out of the following 5 questions:
  - 4A. Describe the articular manifestations of Tuberculosis.
  - 4B. Mention salient investigations and treatment for Henoch Schölein Purpura.
  - 4C. Describe etiopathogenesis of Gout and enumerate 8 causes of hyperuricemia.
  - 4D. Discuss the treatment for RA in brief, enlisting the important classes of drugs with suitable examples.
  - 4E. Discuss the clinical features, investigations and treatment options for a patient with osteoporosis.  
(5×4 = 20 marks)
- ✍ Answer any TWO out of the following 3 questions:
  - 5A. Define Felty's syndrome.
  - 5B. Describe its clinical features.
  - 5C. Enlist salient investigations and treatment options.  
(1+4+5 = 10 marks)
  - 6A. Define Ankylosing Spondylitis.
  - 6B. Describe the etiopathogenesis and clinical features.
  - 6C. Discuss how to investigate and treat a patient with AS.  
(1+4+5 = 10 marks)
  - 7A. Define Osteomyelitis.
  - 7B. Enlist the common organisms causing OM.
  - 7C. Describe the common clinical manifestations.
  - 7D. Mention any two important tests to diagnose Osteomeylitis and enumerate appropriate drugs for treatment.  
(1+2+3+(2+2) = 10 marks)





**MANIPAL UNIVERSITY****THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2010****SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES  
(NEW REGULATION)**

Friday, December 17, 2010

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ **Answer all the questions.****1. Essay Questions:**

- 1A. What are the aims and principles of physiotherapy management for acute stroke?
- 1B. What are the major complications of spinal cord injury and write the physiotherapy management for them?

(10×2 = 20 marks)

**2. Short Notes:**

- 2A. Write the role of physiotherapy in brachial plexus injuries.
- 2B. Write the physiotherapy management for motor neuron disease.
- 2C. Write the principles of physiotherapy management in peripheral nerve injury.
- 2D. Write a brief note on the abnormal EMG potential.
- 2E. Describe any two techniques used for spasticity reductions.
- 2F. Describe the techniques used for improving coordination.
- 2G. Write the principles of Neurodevelopment therapy approach.
- 2H. Mention the classification of cerebral palsy and explain the techniques to improve head control.

(5×8 = 40 marks)

**3. Brief Answers:**

- 3A. Define cerebral palsy.
- 3B. Write any four clinical features of myasthenia gravis.
- 3C. What is F wave?
- 3D. What is Gover's sign?
- 3E. Mention the methods used to measure sensory conduction.
- 3F. Mention the clinical feature of down syndrome.
- 3G. Mention neurogenic bladders.
- 3H. Mention the orthosis used for a flail foot.
- 3I. What is shoulder hand syndrome?
- 3J. What is ataxic gait?

(2×10 = 20 marks)



**MANIPAL UNIVERSITY****THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2010****SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY  
(NEW REGULATION)**

Monday, December 20, 2010

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

**☞ All questions are compulsory.****1. Essays questions:**

- 1A. Describe the clinical features and management of patella femoral joint syndrome. List out the contributing factors for the same.
- 1B. Explain the clinical features and physiotherapy management for carpal tunnel syndrome.

(10×2 = 20 marks)

**2. Short Answers:**

- 2A. Management of Reflex sympathetic dystrophy.
- 2B. Management of osteoarthritis of knee joint.
- 2C. Physiotherapy management for wrist drop.
- 2D. Physiotherapy management of tennis elbow.
- 2E. Clinical features and Physiotherapy management of plantar fasciitis.
- 2F. Stages of sport injury rehabilitation.
- 2G. Ankle foot orthosis.
- 2H. Post polio residual paralysis.

(5×8 = 40 marks)

**3. Brief Answers:**

- 3A. Impingement tests of the shoulder.
- 3B. Spurling's test.
- 3C. Hand deformities in RA.
- 3D. Deformities in median nerve injury.
- 3E. RICE.
- 3F. What is ULTT?
- 3G. Tinel's sign.
- 3H. Special test for tennis elbow.
- 3I. Complications of colle's fracture.
- 3J. Osteotomy.

(2×10 = 20 marks)

