

MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2008

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

Wednesday, December 10, 2008

Time available: 10.00-13.00 Hours.

Maximum Marks: 80

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

SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS

1. Describe the aetiopathogenesis of Poliomyelitis. Enumerate the common deformities in the lower limb. Describe briefly the management of equinus deformity of right ankle.
(3+3+4 = 10 marks)
2. Classify Supracondylar fractures of the Humerus. Enumerate the clinical features, complications and management.
(2+2+2+4 = 10 marks)
3. Write short notes on:
 - 3A. Below knee caliper.
 - 3B. Elbow crutch.
 - 3C. Carpal tunnel syndrome.
 - 3D. C.P.M.

(5×4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Classify vasculitis. Discuss the clinical features, diagnosis and management of Wegener's granulomatosis.
(2+3+2+3 = 10 marks)
- OR**
- Discuss etiology, pathogenesis, clinical features and management of Systemic Lupus Erythematosus (SLE).
(2+2+3+3 = 10 marks)
5. Discuss clinical features, diagnosis and management of Reiter's syndrome.
(4+3+3 = 10 marks)
- OR**
- Classify polyarthritis. Mention the articular manifestation and medical management of Rheumatoid arthritis.
(3+3+4 = 10 marks)
6. Write short notes on any **FOUR** of the following:
 - 6A. Sjogren's Syndrome
 - 6B. Reiter's syndrome.
 - 6C. Polymyositis.
 - 6D. Gout
 - 6E. CREST syndrome.

(5×4 = 20 marks)



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MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2008

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

Thursday, December 11, 2008

Time available: 10.00-13.00 Hours.

Maximum Marks: 80

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

1. What is Muscular Dystrophy? Classification, Clinical features, management of DMD.
2. Etiology, classification, investigation and management of MCA stroke.
3. Myasthenia Gravis – Etiology, Clinical features, investigation management.
4. Short notes:
 - 4A. Multiple system atrophy.
 - 4B. Pellagra.
 - 4C. Wernicke Korakoff's syndrome.
 - 4D. Bloseopharyngeal Neuralgia.
5. Short notes:
 - 5A. Diabetic Neuropathy.
 - 5B. Amyotrophic lateral sclerosis.
 - 5C. Neurogenic bladder.
 - 5D. Carpel Tunnel syndrome.



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2008****SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(NEW REGULATION)**

Friday, December 12, 2008

Time: 10.00-13.00 Hours.

Maximum Marks: 80

✍ **Answer ALL questions.****1. Essay Questions:**

- 1A. What are the causes for balance disorders? Describe treatment strategies to improve balance.
- 1B. What are the treatment approaches that can be employed while treating a person with Hemiplegia? What is the rationale for treatment using NDT?

(10×2 = 20 marks)

2. Short Notes:

- 2A. What are the signs and symptoms of a brachial plexus injury at the level of the upper trunk?
- 2B. What is a high risk infant? What are the PT strategies you would employ when you identify a high risk infant?
- 2C. What are the types of progressive muscular dystrophies? What is the rationale of PT treatment for such patients?
- 2D. What is myasthenia gravis? What is the role of PT in a patient with this condition?
- 2E. What are the cardinal signs of Parkinson's disorder? What is the role of PT in a patient with early Parkinson's?
- 2F. Describe the role of tilt table in the treatment of a patient with Guillan- Barre syndrome.
- 2G. Describe the principles of Sensory Integration therapy.
- 2H. What is ataxia? Add a note on principles of treatment for ataxia.

(5×8 = 40 marks)

3. Brief Answers:

- 3A. What is GCS? What are the components of GCS?
- 3B. What is ptosis? What is the cause?
- 3C. How do you test the X cranial nerve?
- 3D. What is MRP? Write the steps.
- 3E. What is the maximum expected functional level of a patient with L1 complete cord injury?
- 3F. What are the types of cerebral palsy based on tonal abnormalities?
- 3G. Mention any four modalities of coma stimulation.
- 3H. Write the effect of weight bearing exercises in stroke victims.
- 3I. What is anterior cord syndrome? What are the cardinal signs?
- 3J. What is the footwear modification that may be prescribed for a patient with festinating gait? Why?

(2×10 = 20 marks)



MANIPAL UNIVERSITY

THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2008

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

Saturday, December 13, 2008

Time: 10.00-13.00 Hours.

Maximum Marks: 80

1. Essay type questions:

- 1A. Explain the causes, stages, clinical features and management of carpal tunnel syndrome.
- 1B. Discuss the Role of Physiotherapy in management of fracture neck of the femur treated with Dynamic hip screw fixation.

(10×2 = 20 marks)

2. Write briefly:

- 2A. Write clinical features of spinal shock stage. How do you identify patient is out of spinal shock stage.
- 2B. Rehabilitation of grade II medial collateral ligament injury of knee joint.
- 2C. Enumerate the hand deformities in Rheumatoid arthritis. Explain the mechanism of any two deformities.
- 2D. Write the exercise program for spondylololsthesis.
- 2E. Mckenzi derangement syndrome of lumbar spine.
- 2F. Enumerate the causes for scoliosis. Explain different types of curves.
- 2G. Intrinsic and Extrinsic factors for sports injury.
- 2H. Define concave convex rule. Explain joint play motion of knee joint.

(5×8 = 40 marks)

3. Write very briefly:

- 3A. Explain any two tests for carpal tunnel syndrome.
- 3B. What are the different levels of amputation in lower limb?
- 3C. What are the zones of flexor tendon injury in hand?
- 3D. Write the components of Jebson Test.
- 3E. What is functional cast bracing? Explain with an example.
- 3F. What are the pseudo motor changes associated with Reflex sympathetic Dystrophy?
- 3G. Mention different overuse injuries of tendon.
- 3H. Explain the role of Ankle stop in ankle foot orthosis
- 3I. What is the most common type of deformity in above knee amputation. Why?
- 3J. What is de Quervains disease?

(2×10 = 20 marks)

