

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2008****SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, June 16, 2008

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 fractures. What are the steps in the healing of a fracture? Enumerate the complications in an open fracture.
(3+4+3 = 10 marks)
2. Discuss the aetiology and complications of acute osteomyelitis. Briefly discuss the management of chronic osteomyelitis.
(3+3+4 = 10 marks)
3. Write short notes on:
 - 3A. Torticollis.
 - 3B. Axonotmesis.
 - 3C. Pathological fracture.
 - 3D. Thomas splint.(5×4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Discuss the clinical features, diagnosis and management of Ankylosing spondylitis.
(4+3+3 = 10 marks)
- OR**
- Discuss the pathogenesis, clinical features, diagnosis and outline the medical management of Rheumatoid arthritis.
(2+3+3+2 = 10 marks)
5. Discuss the clinical features, diagnosis and management of systemic lupus erythematosus (SLE)
(4+3+3 = 10 marks)
- OR**
- Discuss the pathogenesis, clinical features and management of Gout.
(2+4+4 = 10 marks)
6. Write short notes on any **FOUR** of the following
 - 6A. Felty's syndrome.
 - 6B. Reiter's syndrome
 - 6C. Henoch-Scholein purpura
 - 6D. Temporal arteritis.
 - 6E. Hypercalcemia.(5×4 = 20 marks)



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MANIPAL UNIVERSITY

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

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

Tuesday, June 17, 2008

Time available: 3 Hours.

Maximum Marks: 80

Answer any FOUR questions. Each question carries 20 marks.

1. Classify etiology, investigation and management of acute MCA infarct.
2. Classify etiology, investigation and management of acute onset Paraplegia.
3. Classify Etiology, investigations and management of Parkinson's disease.
4. Short Notes:
 - 4A. Compressive Myelopathy
 - 4B. Alzheimer's Disease
 - 4C. Beri Beri
 - 4D. Role of Chest Physiotherapy in Acute stroke.
5. Short Notes:
 - 5A. Duchenne Muscular Dystrophy
 - 5B. Organo phosphate poisoning
 - 5C. Downs syndrome
 - 5D. Bedsore in Paraplegia.



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2008****SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(COMMON FOR NEW & OLD REGULATION)**

Wednesday, June 18, 2008

Time available: 3 Hours.

Maximum Marks: 80

1. Essay questions:

1A. Define stroke. Write the clinical features of a left MCA stroke. Discuss the physiotherapy management of stroke patient in the flaccid stage.

(1+3+6 = 10 marks)

1B. Write the clinical features of a Duchene Muscular Dystrophy (DMD) patient. Discuss the physiotherapy management of a DMD patient who is wheel chair bound.

(4+6 = 10 marks)

2. Short notes:

2A. Mention the ten principles of PNF.

2B. Describe the physiotherapy management of a patient with transverse myelitis at T4 spinal level.

2C. Describe the energy conservation techniques for a housewife with myasthenia gravis.

2D. Describe the care of an anesthetic foot.

2E. Discuss the management of a comatose patient in brief.

2F. Explain the pain gate mechanism.

2G. Describe the physiotherapy management for bell's palsy.

2H. Describe the physiotherapy management of a 40 year old female affected by Gullian Barre syndrome.

(5×8 = 40 marks)

3. Briefly answer the questions:

3A. Two methods to reduce spasticity and the physiological basis behind it.

3B. What is ATNR?

3C. What is postural tone?

3D. Two method to reduce propulsive gait in Parkinson patient.

3E. What is autonomic dysreflexia?

3F. Four features of postpolio syndrome.

3G. Four methods to prevent pressure sores.

3H. Mention any four spinal orthosis.

3I. What is Rhomberg's sign?

3J. Acute stage management of inflammatory myositis.

(2×10 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2008****SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(NEW REGULATION)**

Thursday, June 19, 2008

Time available: 3 Hours.

Maximum Marks: 80

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

- 1A. Discuss the assessment and management of a patient with thoracic outlet syndrome.
- 1B. Describe the post operative physiotherapy management for a patient with total hip replacement.

(10×2 = 20 marks)

2. Write briefly:

- 2A. Joint protection techniques for rheumatoid hand.
- 2B. Conservative management for thoraco-lumbar scoliosis.
- 2C. Physiotherapy management for tennis elbow.
- 2D. Zones of flexor tendon injuries.
- 2E. Conservative management for grade II ankle sprains.
- 2F. Mulligan's concept.
- 2G. Describe any two tests to evaluate ACL injuries.
- 2H. Discuss the signs and symptoms of carpal tunnel syndrome.

(5×8 = 40 marks)

3. Write very briefly:

- 3A. Types of end feels with examples
- 3B. Mention the types of amputations in foot
- 3C. Components of deformity in CTEV
- 3D. List out the clinical tests for CDH
- 3E. Mallet finger deformity
- 3F. Volkmann's sign
- 3G. Functional position for shoulder arthrodesis
- 3H. Complications of Colle's fracture
- 3I. Capsular pattern for shoulder joint
- 3J. Significance of tinnel's sign.

(2×10 = 20 marks)

