

MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2007

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

Thursday, June 14, 2007

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 nerve injuries. Enumerate the branches of the radial nerve. Discuss the management of radial nerve injury in the arm.
(3+3+4 = 10 marks)
2. Define non union. Enumerate any 6 causes for nonunion. What are the types of nonunion? What are the principles in its management?
(1+3+2+4 = 10 marks)
3. Write short notes on:
 - 3A. Healing of a Fracture.
 - 3B. Erb's palsy.
 - 3C. De Quervain's disease.
 - 3D. Arthrodesis.

(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

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

OR

Discuss the aetiopathogenesis, clinical features and management of Systemic Lupus Erythematosus (SLE).

(2+4+4 = 10 marks)

5. Discuss the cardiopulmonary manifestation and diagnosis and management of Rheumatoid arthritis.

(4+3+3 = 10 marks)

OR

Discuss the Aetiopathogenesis, clinical features, complications and management of progressive systemic sclerosis.

(2+3+2+3 = 10 marks)

6. Write short notes on any **FOUR** of the followings:

- 6A. Rheumatoid factor.
- 6B. Reactive arthritis.
- 6C. Still's disease.
- 6D. Dermatomyositis.
- 6E. Osteoporosis.

(5×4 = 20 marks)



MANIPAL UNIVERSITY
THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2007
SUBJECT: NEUROLOGICAL SCIENCES
(COMMON FOR BOTH OLD & NEW REGULATION)

Friday, June 15, 2007

Time available: 3 Hours.

Maximum Marks: 80

1. Essay questions:

- 1A. Left middle cerebral artery infarct – comment on the clinical features, etiology and treatment.
- 1B. Multiple Sclerosis – clinical features, patho physiology and treatment.

(10×2 = 20 marks)

2. Write short notes on:

- 2A. Beriberi.
- 2B. Diabetic Neuropathy.
- 2C. Sudural hematoma.
- 2D. Bells Palsy.
- 2E. Polymyositis.
- 2F. Alzheimer's disease.
- 2G. Transverse myelitis.
- 2H. Decubitus ulcer.

(5×8 = 40 marks)

3. Briefly answer the questions.

- 3A. Differences between UMN/LMN lesion.
- 3B. Carpal tunnel syndrome.
- 3C. Meningocoele.
- 3D. Deficiency of Vitamin B12 CNS/PNS clinical features.
- 3E. Viral encephalitis.
- 3F. Hereditary motor sensory neuropathy.
- 3G. Ducchen's muscular dystrophy.
- 3H. Wilson's disease.
- 3I. Carbon Monoxide poisoning effect on the nervous system.
- 3J. Risk factor for Atherosclerosis.

(2×10 = 20 marks)



MANIPAL UNIVERSITY

THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2007

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

Saturday, June 16, 2007

Time available: 3 Hours.

Maximum Marks: 80

- ✍ **Illustrate your answers with diagrams wherever appropriate.**
- ✍ **Write brief, clear, relevant and legible answers.**
- ✍ **Answer all the questions and are mandatory.**

1. Essay Questions:

- 1A. Define Guillain Barre, Syndrome (GBS). Discuss in brief the etipathogenesis of GBS. Mention the clinical features of GBS. Discuss the physiotherapy management for a GBS patient recovering from it.
(1+2+3+4 = 10 marks)
- 1B. Define Cerebral Palsy (CP). Classify CP. Discuss about the possible clinical presentation of a 3 year old ataxic CP Child. Explain in brief the physiotherapy management of ataxic CP.
(1+3+3+3 = 10 marks)

2. Write short notes on:

- 2A. Explain the physiotherapy management of rigidity.
- 2B. Physiotherapy management of acute traumatic brain injury.
- 2C. Rood's Facilitation Techniques.
- 2D. Clinical features of Wilson's disease.
- 2E. Physiotherapy management goals and means for Fredrick's ataxia.
- 2F. Shoulder subluxation and pain in Hemiplegic.
- 2G. Clinical presentations pertaining to muscle tone and posture in patients with cerebellar dysfunction.
- 2H. Clinical presentation of Duchenne Muscular Dystrophy.
(5×8 = 40 marks)

3. Briefly answer questions:

- 3A. Define reflex inhibiting patterns of movements.
- 3B. What is atonic bladder?
- 3C. Define chorea.
- 3D. Any four clinical features of multiple sclerosis.
- 3E. Define apraxia.
- 3F. Name four postural reflexes.
- 3G. Features of festinant gait.
- 3H. Mention any two methods of reducing static tremors.
- 3I. Lhermitte's sign.
- 3J. Name four neurological conditions where energy conservation techniques can be beneficial.
(2×10 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2007****SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, June 18, 2007

Time available: 3 Hours.

Maximum Marks: 80

1. Essay questions:

- 1A. Explain the causes, stages, clinical features and management of carpal tunnel syndrome.
1B. Explain the role of physiotherapy in the management of fracture surgical neck of the humerus.

(10+10 = 20 marks)

2. Write briefly:

- 2A. Explain the management of Volkmann's ischemic contracture of the forearm.
2B. What is orthostatic hypotension, what are the causes, how can it be prevented in a case of spinal cord injury?
2C. Explain the rehabilitation of grade II quadriceps strain of an Athlete.
2D. Discuss the rehabilitation program for tendon transfer for wrist drop.
2E. Enumerate the causes for scoliosis. Explain different types of curves.
2F. Write the management of Tennis elbow.
2G. Explain the features of neuropathic arthritis.
2H. Write the management principles in different grades of ligament injury.

(5×8 = 40 marks)

3. Write very briefly:

- 3A. Mention different overuse injuries of tendon.
3B. Explain the role of ankle stop in ankle foot orthosis.
3C. What is the most common type of deformity in above knee amputation? Why?
3D. What is the position of hip joint for hip arthrodesis?
3E. Write the features of pronator teres syndrome.
3F. Mention any four deformities in foot due to polio.
3G. Explain upper limb neural tissue tension test 1.
3H. Describe grades of spondylolisthesis.
3I. Mention tests for ankle instability. Explain any one.
3J. Mention the tendon transfers to get elbow flexion in case of musculocutaneous nerve injury.

(2×10 = 20 marks)

