

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.O.T. DEGREE EXAMINATION – JUNE 2007****SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY**

Monday, June 18, 2007

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

1. Describe the compensation for impaired or absent protective sensation. Also describe the rationale for compensation and compensatory techniques for the same.
(2+13 = 15 marks)
2. Describe the course, nuclei of seventh cranial nerve and localise the lesion for the same.
(3+4+8 = 15 marks)
3. Identify the problems of a 5 year old boy diagnosed as Duchene muscular dystrophy. Plan the occupational therapy management for the same.
(5+10 = 15 marks)
4. Explain the clinical features of left cerebral vascular accident. Discuss the occupational therapy goals in the acute phase of rehabilitation.
(5+10 = 15 marks)
5. Short notes:
 - 5A. Homonymous hemianopia.
 - 5B. Types of memory.
 - 5C. C – icing.
 - 5D. CP angle tumor.
(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2007****SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION**

Tuesday, June 19, 2007

Time: 3 Hrs.

Max. Marks: 80

Answer ALL questions.

1. Discuss the planning of an occupational therapy department with special emphasis on physical infrastructure, professionals and equipments.
(15 marks)
2. Define 'MET'. Describe occupational therapy rehabilitation programme for a 60 years old male suffering from acute cardiac problem.
(2+13 = 15 marks)
3. Define 'Massage'. Discuss the classification of techniques and physiological effect of massage.
(2+8+5 = 15 marks)
4. Discuss the stages of vocational rehabilitation for 40 years old industrial worker who had a job site accident resulting into Right Above Elbow Amputation.
(15 marks)
5. Write short notes:
 - 5A. Health context for old age.
 - 5B. Psychosocial considerations post mastectomy.
 - 5C. Indications and description for any two writing adaptations.
 - 5D. Symbolism for persons with HIV.
(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2007****SUBJECT: BIO – ENGINEERING**

Wednesday, June 20, 2007

Time: 1½ Hrs.

Max. Marks: 40

✍ **Answer ALL questions. Draw diagrams and flow charts wherever appropriate.**

1. Define stump. Write the characteristics of an ideal stump. Describe the various post-operative care to develop an ideal stump.

(2+3+5 = 10 marks)

2. Describe the various parts of a Below Elbow Prosthesis.

(10 marks)

3. Explain briefly the checkout procedures of KAFO.

(5 marks)

4. Write short notes on any **THREE** of the following:

4A. SAFE FOOT.

4B. Boston thoracic Brace.

4C. U.C.B.L. Orthosis.

4D. PAVLICK HARNESS.

(5×3 = 15 marks)

