

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Tuesday, June 08, 2010

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

Answer SECTION "A" and SECTION "B" in two separate answer books.**SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS**

1. Enumerate the common deformities in the lower limb in Post Polio Residual Palsy. Describe the management of equinus deformity. (10 marks)
2. Classify bone tumours. Discuss the radiological features and management of osteosarcoma. (10 marks)
- 3A. Role of Physiotherapy in cerebral palsy
- 3B. Clinical features of rickets
- 3C. De Quervain's disease.
- 3D. Baker's cyst (20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS**Answer question number 4 and any TWO of the remaining questions.**

4. Write short notes on any FOUR of the following: (5×4 = 20 marks)
 - 4A. Raynaud's phenomenon.
 - 4B. Psoriatic arthritis.
 - 4C. Etiopathogenesis of Gout.
 - 4D. Extra articular manifestation of rheumatoid arthritis.
 - 4E. Hypercalcaemia.
5. List the clinical features and criteria for diagnosis of systemic lupus erythematosus. (10 marks)
6. Explain the etiopathogenesis and management of osteoarthritis. (10 marks)
7. Define seronegative Arthritis. Discuss clinical features, diagnosis and treatment of Ankylosing spondylitis. (10 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: NEUROLOGICAL SCIENCES
(COMMON FOR BOTH OLD & NEW REGULATION)**

Thursday, June 10, 2010

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

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

1. Enumerate clinical features of complete transection of spinal cord at T10 segment. Draw section of spinal cord at this level. Enumerate management of Paraplegia.
2. Meningitis-- etiopathogenesis, clinical features, management.
3. Multiple sclerosis---- types, etiology, clinical features, management.
4. **Short notes:**
 - 4A. Organophosphate poisoning
 - 4B. Wilson disease
 - 4C. Radiation myelopathy
 - 4D. Rabies
5. **Short notes:**
 - 5A. ALS (amyotrophic lateral sclerosis)
 - 5B. Pellagra
 - 5C. Myasthenia gravis
 - 5D. Guillian Barre syndrome.



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS**

Saturday, June 12, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

✍ Answer all the Questions.**✍ Draw the Diagram Wherever Necessary.**

1. Explain the OT management for 25 year old waiter diagnosed as acute low back pain with radiating symptoms.

(15 marks)

2. Draw and label the sensory and motor deficit areas in upper plexus injury. Explain the OT management for 30 yr old computer professional with median nerve injury.

(5+10 = 15 marks)

3. Explain in detail the pre- prosthetic OT management for an above knee amputee.

(15 marks)

4. Describe ASIA Scale and explain OT role in managing high level paraplegic.

(5+10 = 15 marks)

5. Short Notes:

5A. Mention the domains addressed under biomechanical FOR with examples.

5B. Write briefly about OT management for congenital hip dislocation.

5C. Role of OT in Pyogenic Arthritis.

5D. Describe briefly about Kliert's Traction Mechanism and its benefits.

(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY**

Tuesday, June 15, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

1. Write in detail all the diagonal patterns as described by PNF with appropriate examples. Write the factors that support the use of diagonal patterns in treatment.
(10+5 = 15 marks)
2. Describe any two common slow compressive disorders of spinal cord, their signs and symptoms and Occupational Therapy management for the same.
(3+3+5+4 = 15 marks)
3. Discuss in detail about anterior cerebral artery syndrome. Write the Occupational Therapy management for the same.
(7+8 = 15 marks)
4. Discuss Glasgow coma scale. Describe the Occupational Therapy management for 23 year old engineering student who has sustained traumatic brain injury and currently in Glasgow coma score 8.
(6+9 = 15 marks)
5. **Short Notes:**
 - 5A. Discuss any 3 training techniques for visual attention with appropriate examples.
(5 marks)
 - 5B. Behavioural management techniques for bladder dysfunction.
(5 marks)
 - 5C. Causes and clinical features of Huntington's Chorea.
(2+3 = 5 marks)
 - 5D. A- Icing technique.
(5 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION**

Thursday, June 17, 2010

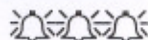
Time: 14:00-17:00 Hrs.

Max. Marks: 80

Answer all the questions.

1. Explain the health context of old age. Discuss Occupational Therapy approaches in geriatrics.
(5+10 = 15 marks)
2. Define 'Clinical reasoning'. Discuss the essential characteristics of clinical reasoning.
(2+13 = 15 marks)
3. Classify Hand Splint. Explain the dynamic assist principles.
(5+10 = 15 marks)
4. Discuss the Occupational Therapy management for a 35 years old male with HIV.
(15 marks)
5. **Short notes:**
 - 5A. Breathing technique in Pulmonary Rehabilitation.
 - 5B. Explain any five assistive devices for restricted ROM.
 - 5C. Types of wheelchairs.
 - 5D. Types of stretching.

(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2010****SUBJECT: BIO-ENGINEERING**

Saturday, June 19, 2010

Time: 14:00-15:30 Hrs.

Max. Marks: 40

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

1. Explain the parts of a Below Elbow Prosthesis.
(10 marks)
2. Explain the various checkout procedures of K.A.F.O.
(10 marks)
3. Explain the orthotic management of scoliosis.
(5 marks)
4. **Write short notes on any THREE of the following:**
 - 4A. U.C.B.L. orthosis.
 - 4B. Constant friction knee joint.
 - 4C. MADRAS FOOT.
 - 4D. Soft cervical collar.

(5×3 = 15 marks)

