

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2009****SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, June 08, 2009

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. Discuss the clinical features of a case of intracapsular fracture neck femur and its management in a 78 year old. What are the complications expected in a case of fracture neck of femur?
(10 marks)
2. Enumerate the components of deformity in a case of Idiopathic Club foot. How will you manage a child aged 2 years, with club foot?
(10 marks)
- 3A. Foot Drop
3B. De Quervains Disease
3C. Sequestrum
3D. Gout.
(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Classify polyarthritis. Discuss the clinical features, diagnosis and management of Ankylosing spondylitis.
(2+3+2+3 = 10 marks)
OR
Classify vasculitis. Discuss the clinical features, diagnosis and management of polyarthritis nodosa (PAN)
(2+3+2+3 = 10 marks)
5. Discuss the aetiopathogenesis, clinical features and management of secondary osteoarthritis.
(4+3+3 = 10 marks)
OR
What is osteoarthritis? Discuss aetiopathogenesis Clinical features, diagnosis and management of osteoarthritis.
(2+3+2+3 = 10 marks)
6. Write short notes on any **FOUR** of the following.
6A. Disease modifying antirheumatic drugs.
6B. Rheumatoid factor.
6C. Chondrocalcinosis
6D. Raynaud's phenomenon
6E. Sjogren's syndrome.
(5×4 = 20 marks)



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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2009

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

Tuesday, June 09, 2009

Time: 14:00-17:00 Hrs.

Maximum Marks: 80

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

1. Multiple sclerosis – Types, etiology and management.
2. What is meningitis? Describe the types, clinical features and management of the same.
3. Myasthenia Gravis – Etiology, clinical features, management.
4. Short notes:
 - 4A. Carpal tunnel syndrome.
 - 4B. Wilsons disease.
 - 4C. Chronic subdural haematoma.
 - 4D. Role of TENS in CRPS (Complex regional pain syndrome)
5. Short notes:
 - 5A. Motor Neuron disease
 - 5B. Tuberculoma
 - 5C. CJD
 - 5D. Bells Palsy.



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2009****SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS**

Wednesday, June 10, 2009

Time: 14:00-17:00 Hrs.

Max. Marks: 80

✍ **Answer ALL the questions.**

✍ **Draw the diagram wherever necessary.**

1. Describe fractures around femur neck and explain the OT role for 35 year old executive who undergone ORIF for Intertranchanteric Fracture.

(5+10 = 15 marks)

2. Describe briefly about arthroplasties and explain OT management for a 50 year old executive who underwent Total hip replacement surgery.

(5+10 = 15 marks)

3. Describe briefly about soft tissue injuries in upper limb and explain the OT management for 35 year old housewife who diagnosed as lateral epicondylitis.

(5+10 = 15 marks)

4. Describe various degrees of burn injury and explain OT role in Rehab phase for second degree burn injury patient.

(5+10 = 15 marks)

5. Short Notes:

5A. Mention the purpose of splint in Pollicized hand.

5B. Draw and label the parts of myoelectrical prosthesis.

5C. Mention any five deformities in RA and its corrective splints.

5D. Write five work simplification techniques for clerical employee with LBP.

(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2009

SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY

Thursday, June 11, 2009

Time: 14:00-17:00 Hrs.

Max. Marks: 80

Answer all the questions.

1. What are the four phases of the development of motor control as identified by Roods? Describe the ontogenic motor pattern "Pivot Prone". Discuss how to progress to the next two levels as described by Roods.
(5+5+5 = 15 marks)
2. Define motor learning. Explain the motor and cognitive learning theories. Discuss its application in Occupational Therapy Practice.
(2+10+3 = 15 marks)
3. Describe the clinical features of syringomyelia and its medical management. Discuss the role of Occupation Therapy in management of the same.
(5+5+5 = 15 marks)
4. A 50 year old bank employee was diagnosed to have a space occupying lesion in the cerebellar vermis which is progressive in nature. Identify the specific problems and plan for an Occupational therapy management.
(5+10 = 15 marks)

5. Short Notes:

- 5A. Haematomyelia
- 5B. Management of diabetic neuropathy.
- 5C. Allen's cognitive levels.
- 5D. Treatment for saccades.

(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2009****SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION**

Friday, June 12, 2009

Time: 14:00-17:00 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. Define flexibility and explain the types of flexibility along with techniques to improve the same.
(3+5+7 = 15 marks)
2. Describe the various types of legally accepted disabilities and explain the benefits provided by PWD act to any two disabilities.
(5+5+5 = 15 marks)
3. Describe Elstein 3 point scale used for interpretation and explain the conditional clinical reasoning process used in occupational therapy management for low backache patient.
(5+10 = 15 marks)
4. Discuss the basic principles of administration and organization.
(15 marks)
5. **Short notes:**
 - 5A. Work simplification techniques.
 - 5B. Functional Electrical Stimulation.
 - 5C. Leisure assessment.
 - 5D. Technology for the deaf.
(5×4 = 20 marks)



MANIPAL UNIVERSITY**THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2009****SUBJECT: BIO – ENGINEERING**

Saturday, June 13, 2009

Time: 14:00-15:30 Hrs.

Max. Marks: 40

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

1. Describe the various parts of a Below Elbow Prosthesis. Explain the management of very short Below Elbow stump.
(7+3 = 10 marks)
2. Briefly explain the parts of a HKAFO. List its indications.
(9+1 = 10 marks)
3. Describe the suspension systems of Above Knee Prosthesis.
(5 marks)
4. Write short notes on any **THREE** of the following:
 - 4A. A.F.O – Plastic Design.
 - 4B. JAIPUR FOOT.
 - 4C. Dennis Brown Splint.
 - 4D. Boston Thoracic Brace.
(5×3 = 15 marks)

