Reg. No.					
----------	--	--	--	--	--

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2005 SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY

(COMMON FOR BOTH OLD & NEW REGULATION)

Thursday, December 08, 2005

Time available: 3 Hours.

Maximum Marks: 80

Answer Section "A" and Section "B" in TWO SEPARATE ANSWER BOOKS.

SECTION "A": CLINICAL ORTHOPAEDICS: 40 MARKS

Enumerate the injuries caused by fall on the out stretched hand. Discuss the clinical features
and management of supracondylar fracture of humerus in a child. Add a note on the
complications of this fracture.

(2+4+4 = 10 marks)

What are the stages of tuberculosis of the hip? Mention the clinical features and management of tuberculosis of the hip.

(3+3+4 = 10 marks)

Write short notes on:

 $(5 \times 4 = 20 \text{ marks})$

- 3A. Baker's cyst.
- 3B. Galeazzi fracture dislocation.
- 3C. Mal union.
- 3D. Denis Browne splint.

SECTION "B": RHEUMATOLOGY: 40 MARKS

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

(4+3+3 = 10 marks)

OR

Discuss the clinical manifestations, diagnosis and management of Progressive Systemic Sclerosis.

(4+2+4 = 10 marks)

 Classify Polymyositis and Dermatomyositis. Discuss the clinical features, diagnosis and management of Polymyositis- Dermatomyositis.

OR

Classify Juvenile chronic arthritis. Discuss the clinical features, diagnosis and management of Still's disease.

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

- Write short notes on any FOUR of the following.
- 6A. Pseudogout.
- 6B. Sjogren's syndrome
- 6C. Extra articular features of rheumatoid arthritis.
- 6D. Enteropathic arthritis
- 6E. Disease modifying agents in rheumatoid arthritis.

 $(5\times4 = 20 \text{ marks})$



Reg. No.					
----------	--	--	--	--	--

(Deemed University)

THIRD YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2005

SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY

Monday, December 12, 2005

Time: 3 Hrs.

Max. Marks: 80

Answer ALL questions

 List the components of flexor and extensor synergy of the arm. A 35 year old vegetable vendor with left cerebral vascular accident is in Brunnstrom stage 3, with respect to her arm.
 Use Brunnstrom approach and describe the management for her arm.

(5+10 = 15 marks)

 What is sensory stimulation? Describe in detail the sensory stimulation for a patient with altered consciousness.

(3+12 = 15 marks)

 Discuss the pathophysiology and clinical signs of myasthenia gravis. Describe the role of occupational therapy for patients who have myasthenia gravis.

(7+8 = 15 marks)

 Explain the clinical features of multiple sclerosis. Plan out the occupational therapy program for a 25 year old house wife who is diagnosed as relapsing-remitting multiple sclerosis.

(5+10 = 15 marks)

- 5. Short notes:
- 5A. Signs and symptoms of hydrocephalus after infancy.
- 5B. Functions of the frontal lobe.
- 5C. What is multi context approach? Describe the analysis of surface task and underlying task characteristics with examples.
- 5D. Palliative care.

 $(5\times4 = 20 \text{ marks})$



Reg. No.	

(Deemed University)

THIRD YEAR B.O.T. DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS

Tuesday, December 13, 2005

Answer all questions.

Time: 3 Hrs.

Max. Marks: 80

- Draw diagrams and flow charts wherever appropriate es
- Explain the various complications of SCI and how will you prevent them. Also, discuss the 1. OT management in each.

(5+4+6 = 15 marks)

2. Describe the pathology and clinical features of poliomyelitis. Explain the OT role in post polio residual paralysis of right upper limb.

(5+10 = 15 marks)

3. Discuss the musculoskeletal dysfunction areas addressed by Occupational Therapists and their interventions for each of them.

(15 marks)

4. Enumerate the non-rheumatoid diseases affecting joints. Describe pathophysiology, clinical manifestation and the Occupational Therapy role in Ankylosis Spondylitis.

(3+12 = 15 marks)

- 5. Write short notes on the following:
- 5A. Transfer training in paraplegia.
- Describe CTEV and briefly outline the OT role. 5B.
- Straight leg raising test and its significance. 5C.
- 5D. Tennis elbow and splinting management.

(20 marks)



Reg. N	No.			

(Deemed University)

THIRD YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2005

SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION

Wednesday, December 14, 2005

Answer ALL questions.

Time: 3 Hrs.

Max. Marks: 80

Explain the three essential characteristics of clinical reasoning. Discuss the decision tree
process.

(6+9 = 15 marks)

 Discuss the different stages of HIV. Write down the stage wise Occupational therapy for a 45 year old casual worker admitted in a general hospital.

(5+10 = 15 marks)

 Explain with diagram the uses of various parts of a biofeedback instrument. Discuss four clinical applications of biofeedback in Occupational therapy.

(7+8 = 15 marks)

 Define 'Vocational Rehabilitation'. Discuss your plan for vocational rehabilitation of a 35 year old industrial laborer having unilateral below knee amputation.

(2+13 = 15 marks)

- Write short notes:
- 5A. Progressive resistive exercises (PRE).
- 5B. Powered wheel chair.
- 5C. Five fit principles of splinting.
- 5D. Role of medical social worker in rehabilitation team.

 $(5\times4 = 20 \text{ marks})$



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.O.T. DEGREE EXAMINATION - DECEMBER 2005

SUBJECT: BIO - ENGINEERING

Thursday, December 15, 2005

Max. Marks: 40 Time: 11/2 Hrs.

Answer ALL questions.

Describe the checkout procedures of an above elbow prosthesis. What body motions you 1. would teach the amputee to accomplish elbow locking?

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

(2+3+5 = 10 marks)

(8+2 = 10 marks)

3. Describe the parts of A.F.O – plastic design with its advantages over metal design.

(5 marks)

- Write short notes on any THREE of the following: 4.
- Milwankee Brace. 4A.
- S.A.F.E. FOOT. 4B.
- U.C.B.L. orthosis. 4C.
- 4D. SOMI BRACE.

 $(5\times3 = 15 \text{ marks})$

