

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY****(COMMON FOR BOTH OLD & NEW REGULATION)**

Monday, May 29, 2006

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 shoulder dislocation. Mention four diagnostic clinical features of this condition. Discuss the management of anterior dislocation of the shoulder.
(2+4+4 = 10 marks)
2. Describe the diagnostic tests used for ligamentous and meniscal injuries of the knee. Discuss the postoperative management following reconstruction of a torn anterior cruciate ligament.
(4+3+3 = 10 marks)
3. Write short notes on:
 - 3A. Equinus deformity.
 - 3B. Klumpke's palsy.
 - 3C. Painful arc syndrome.
 - 3D. SACH foot.
(5×4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

✍ Answer question No. 4 (mandatory) and TWO of the remaining questions.

4. Write notes on any **FOUR** of the following:
 - 4A. CREST Syndrome.
 - 4B. Still's Disease
 - 4C. Osteoporosis
 - 4D. Septic arthritis
 - 4E. Clinical features and investigations of poly arteritis nodosa.
(4×5 = 20 marks)
5. What is spondyloarthropathy? Enumerate different types and clinical feature of any one.
(10 marks)
6. Clinical features, investigations and medical management of rheumatoid arthritis.
(10 marks)
7. Write down the causes and management of osteoarthritis.
(10 marks)



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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: NEUROLOGICAL SCIENCES**
(COMMON FOR BOTH OLD & NEW REGULATION)

Tuesday, May 30, 2006

Time available: 3 Hours.

Maximum Marks: 80

Answer any FOUR questions. Each question carries 20 marks.

1. Etiology, clinical features and management of multiple sclerosis.
2. Enumerate the causes of chronic meningitis, write a brief note of tubercular meningitis.
3. Etiology, clinical features and management of acute polymyositis.
4. Write short notes on:
 - 4A. Pseudo bulbar palsy.
 - 4B. Chronic subdural haematoma.
 - 4C. Wilson disease.
5. Write short notes on:
 - 5A. ALS.
 - 5B. Rabies.
 - 5C. Alcoholic polyneuropathy.



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THIRD YEAR B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS**

Wednesday, May 31, 2006

Time: 3 Hrs.

Max. Marks: 80

✍ **Answer all questions.**✍ **Draw diagram wherever is necessary.**

1. Explain the Occupational Therapy role for a 26 year athlete who sustained SCI with high level paraplegia.

(15 marks)

2. Briefly outline the functional loss in right BK amputee and discuss the role of Occupational Therapy in the same.

(5+10 = 15 marks)

3. Define burn and its pathophysiological feature. Discuss post burn scars. Explain the Occupational therapy role in Post burn scar management.

(5+3+7 = 15 marks)

4. List out the components of hand functions and explain the Occupational Therapy intervention in Zone –II lacerated Extensor Tendon Injury with emphasis on hand function tasks.

(5+7+3 = 15 marks)

5. Write short notes on the following:

5A. Ulnar drift

5B. Formant's sign with advantages and disadvantages of special test.

5C. Complication of supracondylar fracture.

5D. Mention two static and dynamic splints used in peripheral nerve injury.

(20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY**

Thursday, June 01, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. What mechanical and physiological components of movement should be evaluated in the hemiplegic upper extremity? What methods can be used to prevent development of a painful shoulder and shoulder subluxation?
(7+8 = 15 marks)
2. What are the Rood's ontogenic motor patterns? Describe each pattern with the type of muscle contraction and therapeutic use.
(3+12 = 15 marks)
3. Describe the clinical features of medulloblastoma. Plan out an O.T program for a 14 year old school boy diagnosed having medulloblastoma in the posterior fossa.
(5+10 = 15 marks)
4. Using neurodevelopment approach plan out an occupational therapy program for a 60 year old lady with right cerebral vascular accident in the acute phase of rehabilitation.
(15 marks)
5. Short notes:
 - 5A. Orthotic devices used in infectious disorders of brain.
 - 5B. Strategies used in motor relearning program.
 - 5C. Describe signs and symptoms of spinal cord compression at any given level.
 - 5D. Constructional apraxia.
(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006**SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION**

Friday, June 02, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer ALL questions.

1. Discuss the physiological effects of heat on body. Write down the classification of heat modalities. Explain the general indications for the same.
(5+5+5 = 15 marks)
2. Discuss and draw a wheel chair accessible kitchen for a 30 years old urban female with intact upper extremity functions, from upper socioeconomic background. Write down the essential factors to be considered in selection and use of kitchen related equipments.
(9+6 = 15 marks)
3. Define clinical reasoning. Discuss the essential characteristics of clinical reasoning with examples.
(2+13 = 15 marks)
4. Classify splints. Discuss the mechanical principles for the fabrication of hand splints.
(5+10 = 15 marks)
5. Write short notes:
 - 5A. Work hardening.
 - 5B. Biophysics of Cryotherapy.
 - 5C. Universal precautions for HIV.
 - 5D. Assessment in Cardiac conditions.(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – MAY/JUNE 2006

SUBJECT: BIO – ENGINEERING

Saturday, June 03, 2006

Time: 1½ Hrs.

Max. Marks: 40

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

1. Describe the parts of a KAFO. Brief the management of Genu valgum with KAFO.
(8+2 = 10 marks)

 2. List the checkout procedures of an Above Knee Prosthesis.
(10 marks)

 3. Describe the various types of Harnessing system of Below Elbow prosthesis.
(5 marks)

 4. Write short notes on any THREE of the following
 - 4A. Soft cervical collar
 - 4B. SACH foot
 - 4C. Club foot boot
 - 4D. Terminal Devices.
- (5×3 = 15 marks)

