

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY***((COMMON FOR BOTH OLD & NEW REGULATION))*

Wednesday, June 15, 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**

1. What do you mean by dislocation of a joint? Enumerate four joints which commonly get dislocated following trauma. Discuss the clinical features and management of traumatic dislocation of any joint. Enumerate four complications of this dislocation.
(1+2+2+3+2 = 10 marks)
2. What is club foot? What are the deformities seen in club foot? At which joints do these deformities occur? Briefly outline the management of a club foot in a 1 year old child.
(1+2+2+5 = 10 marks)
3. Write short notes on:
 - 3A. Erb's palsy
 - 3B. Painful arc syndrome
 - 3C. Cubitus varus
 - 3D. Causes of nonunion of fracture neck of femur.
 (5×4 = 20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. Write short notes on any **FOUR** of the following:
 - 4A. Salient clinical features of seronegative spondylarthritides.
 - 4B. Types of psoriatic arthritis.
 - 4C. ASO titre.
 - 4D. Henoch schonlein purpura.
 - 4E. Hand changes in rheumatoid arthritis.
 (5×4 = 20 marks)
5. Answer any **TWO** of the following:
 - 5A. Classify vasculitis. Briefly describe the clinical features, investigation and treatment of polymyalgia rheumatica.
 - 5B. Discuss differences in clinical features, diagnosis and treatment of gout and pseudogout.
 - 5C. Describe clinical features and management of polyarteritis nodosa.
 (10×2 = 20 marks)



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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2005

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

Thursday, June 16, 2005

Time available: 3 Hours.

Maximum Marks: 80

Answer any FOUR questions. Each question carries 20 marks.

1. Classify motor neuron disease. Write in brief about the etiology, clinical features and management of ALS.
2. Enumerate the causes of acute peripheral neuropathy. Write a brief account on G.B. syndrome.
3. CSF production, circulation and etiology and clinical features of pyogenic meningitis.
4. Write short notes on:
 - 4A. Acute Poliomyelitis.
 - 4B. Lacunar infarct.
 - 4C. Glossopharyngeal neuralgia.
5. Write short notes on:
 - 5A. Syringomyelia.
 - 5B. Tetanus.
 - 5C. HSE.



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THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: OCCUPATIONAL THERAPY IN ORTHOPAEDICS**

Friday, June 17, 2005

Time: 3 Hrs.

Max. Marks: 80

✍ Answer all questions.

✍ Draw diagrams and flow charts wherever appropriate

1. List out the cumulative trauma disorders and its degenerative process. Discuss the Occupational Therapy program for a 30 year old computer professional with Carpal tunnel syndrome.
(6+9 = 15 marks)
2. Explain about shoulder joint arthroplasty. Discuss the Occupational Therapy program for a 40 year old female clerk with right shoulder arthroplasty.
(5+10 = 15 marks)
3. Describe the various Occupational Therapy interventions for Rheumatoid Arthritis.
(15 marks)
4. Explain in brief Laminectomy and write management of patients with low back pain with emphasis on body mechanics and back care techniques.
(3+12 = 15 marks)
5. Write short notes on the following:
 - 5A. Occupational Therapy in Radial club hand.
 - 5B. Functional cast bracing.
 - 5C. Sensory care in Hansen's disease.
 - 5D. Desensitisation techniques.
(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: OCCUPATIONAL THERAPY IN NEUROLOGY**

Monday, June 20, 2005

Time: 3 Hrs.

Max. Marks: 80

Answer ALL questions

1. Define and describe apraxia. Explain in detail the occupational therapy assessment and management for the different types of limb apraxia.
(5+5+5 = 15 marks)
2. Explain the inhibition and facilitation techniques used in neurodevelopmental approach and the three phases of inhibition and facilitation.
(7+5+3 = 15 marks)
3. Localise the lesions of corticospinal tract throughout its course.
(15 marks)
4. Discuss the clinical profile for a 55 year old farmer having ischemic stroke in the right hemispheric anterior cerebral artery distribution. Write in detail the occupational therapy management for the same.
(5+10 = 15 marks)
5. Write short notes on the following:
 - 5A. Describe the categories of multiple sclerosis.
 - 5B. Implicit and Explicit Learning.
 - 5C. Describe the behavioural management of bladder dysfunction.
 - 5D. Discuss the common complications of peripheral neuropathy.(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: OCCUPATIONAL THERAPY IN REHABILITATION**

Tuesday, June 21, 2005

Time: 3 Hrs.

Max. Marks: 80

✍ Answer ALL questions.

1. Explain radical mastectomy. Discuss the post mastectomy occupational therapy care for a 45 year old married lady, working as an officer in bank.
(5+10 = 15 marks)
2. Define 'Biofeedback'. Explain instrumentation for an EMG biofeedback. Describe the therapeutic procedures of reeducation for weak wrist extensors by biofeedback.
(2+6+7 = 15 marks)
3. Write down the appropriate use and purpose of different tools and materials used for fabrication of a metal hand splint. Describe with appropriate illustrations the method of paper pattern measurement for resting hand splint.
(8+7 = 15 marks)
4. Write down the various considerations used for the rehabilitation of a person with blindness. Discuss the different technologies available for them.
(10+5 = 15 marks)
5. Write short notes:
 - 5A. Contraindication for exercise programme for patient with cardiac problem.
 - 5B. Measurement for standard wheel chair.
 - 5C. Any five concessions and benefits for persons with disability.
 - 5D. Functional performance assessment for geriatrics.

(5×4 = 20 marks)



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THIRD YEAR B.O.T. DEGREE EXAMINATION – JUNE 2005**SUBJECT: BIO – ENGINEERING**

Wednesday, June 22, 2005

Time: 1½ Hrs.

Max. Marks: 40

Answer ALL questions.

1. What are indications of a KAFO? Describe the parts of a KAFO design.
(10 marks)
2. What are the parts of a Boot or Shoe? Describe the shoe modifications to correct pes valgus.
(10 marks)
3. Describe the check out of an upper extremity below elbow prosthesis.
(5 marks)
4. Write short notes on: (any **THREE** questions only)
 - 4A. Single Axis Ankle joint foot.
 - 4B. Knight spinal brace with its indications.
 - 4C. Various design of Syme's Prosthesis.
 - 4D. Club foot BOOT.

(5×3 = 15 marks)

