MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: ORTHOPAEDICS & RHEUMATOLOGY/CLINICAL ORTHOPAEDICS & RHEUMATOLOGY

(COMMON FOR OLD & 2008 REGULATION/2011 BATCH)

Tuesday, December 15, 2015

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ Answer SECTION "A" and SECTION "B" in two separate answer books.

SECTION "A": ORTHOPAEDICS/CLINICAL ORTHOPAEDICS: 40 MARKS

1. Define Cerebral palsy. Enumerate the types of cerebral palsy based on pattern and type of involvement. Discuss the principles of management.

(10 marks)

2. Define fracture. Classify different types of fractures. Describe the principles of management of an open fracture.

(10 marks)

3A. Complications of Colles' fracture

3B. Osteosarcoma

3C. Claw hand

3D. Ankle foot orthosis (AFO)

(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. **Write short notes on any FOUR of the following FIVE questions:**

4A. Psoriatic Arthritis

4B. Adult-onset Still's disease

4C. Clutton's joint

4D. Reiter's syndrome

4E. Osteomalacia

(5 marks × 4 = 20 marks)

✍ **Answer any TWO full questions out of the following three questions:**

5A. Classify systemic vasculitides based on the vessel involved.

5B. Discuss the clinical features of Churg-Strauss syndrome.

5C. Add a note on ANCA.

(4+4+2 = 10 marks)

6A. Enumerate crystal arthropathies.

6B. Discuss the pathophysiology and etiology of crystal formation in a joint.

6C. Compare and contrast Gout Vs Pseudogout.

(2+4+4 = 10 marks)

7A. Enumerate four causes of symmetrical polyarthritis.

7B. Add a note on CREST Syndrome.

7C. Discuss clinical manifestation of Systemic Sclerosis.

7D. How do you investigate and manage Systemic Sclerosis?

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

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THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: NEUROSCIENCES
(OLD & 2008 REGULATION/2011 BATCH)

Wednesday, December 16, 2015

Time: 10:00-13:00 Hrs.   Maximum Marks: 80

✍   **Answer any FOUR questions. Each question carries TWENTY marks.**

1.   Write detailed note on normal development and maturation from birth. Gross motor development, fine motor and cognitive development.

2.   **Write short note on:**

2A. Multi system atrophy

2B. Motor Neuron Disease

2C. Wilsons disease

2D. Epilepsy

3.   Multiple sclerosis – Etiopathogenesis, Clinical features, Management

4.   **Write short note on:**

4A. Epidural hematoma

4B. Phenobarbitone

4C. Neurogenic bladder

4D. Vitamin B12 Neuropathy

5.   Classify stroke, mention risk factors, clinical features and management of embolic stroke.

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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: PHYSIOTHERAPY IN NEUROSCIENCES
(COMMON FOR 2008 & OLD REGULATION)

Thursday, December 17, 2015

Time: 10:00-13:00 Hrs.   Maximum Marks: 80

✍ **Answer ALL questions.**

1. **Essay questions:**

1A. Explain physiotherapy management of a head injury patient who is comatose.

(10 marks)

1B. Describe the types of gait in spastic cerebral palsy. Describe the physiotherapy management to improve the balance of a 6 year old spastic diplegic child.

(4+6 = 10 marks)

2. **Write short answers:**

2A. Describe the prevention and management of shoulder subluxation in a hemiplegic patient.
2B. Describe the method to evaluate muscle tone and grade it.
2C. Explain the theoretical principles of NDT.
2D. Describe the coordination exercises in patients with cerebellar disorders.
2E. Write a note on Autonomic dysreflexia.
2F. Describe the stages of DMD.
2G. Describe the management of a infant with Erb's palsy.
2H. Describe the physiotherapy management of a patient following malignant brain tumour.

(5 marks × 8 = 40 marks)

3. **Write briefly:**

3A. What is Rhomberg's sign?
3B. Mention the types of motor apraxia.
3C. What are the common areas involved in heterotrophic ossification?
3D. Mention any four methods to reduce spasticity.
3E. Define postpolio syndrome.
3F. What is BPPV?
3G. Mention any four gait orthosis used for ambulation in children with spinabifida.
3H. What is Uthoff's phenomenon?
3I. What is myasthenic snarl?
3J. Mention four types of Motor Neuron Disease.

(2 marks × 10 = 20 marks)

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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
(OLD & 2008 REGULATION)

Friday, December 18, 2015

Time: 10:00-13:00 Hrs.   Maximum Marks: 80

✍   **Answer ALL questions.**

1.   **Essay questions:**

1A.   Discuss rehabilitation protocol for Bankart's repair in detail.

1B.   Describe rehabilitation protocol following Total Hip Arthroplasty.

                                                     (10 marks × 2 = 20 marks)

2.   **Brief questions:**

2A.   Discuss conservative management for Tennis elbow.

2B.   Discuss complications of Spinal cord injury.

2C.   Explain stages of Reflex Sympathetic Dystrophy and its Physiotherapy management.

2D.   Discuss exercise program for a patient with Spondylolisthesis.

2E.   Discuss clinical features and management of Tarsal Tunnel syndrome.

2F.   Discuss early passive mobilization protocol for flexor tendon injury.

2G.   Explain stump management for a below Knee Amputee.

2H.   Discuss rehabilitation for Adhesive capsulitis.

                                                     (5 marks × 8 = 40 marks)

3.   **Short answers:**

3A.   What is Hoffa's syndrome?

3B.   Triple arthrodesis

3C.   Lachman test

3D.   Which nerve causes Meralgia paresthetica? Mention its clinical features.

3E.   Mention stages of Perthe's Disease.

3F.   Mention complications of fracture neck of femur

3G.   List out components of Ulnar nerve tissue tension test.

3H.   Mention deformities in RA hand.

3I.   Define assisted and unassisted angle.

3J.   Mention any two spinal orthosis with their uses.

                                                     (2 marks × 10 = 20 marks)

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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS
(2008 REGULATION)

Saturday, December 19, 2015

Time: 10:00-11.30 Hrs

Maximum Marks: 40

✍ **Answer ALL questions.**

1. **Essay Questions:**

   Describe the various ethical principles that govern clinical research in physical therapy. Elaborate the various hindrances to effective clinical research in physiotherapy in India.

   (10 marks)

2. **Short Notes:**

2A. Elements of an informed consent

2B. Documentation in health care

2C. Ethical consideration of placebo treatment

2D. Four WCPT guidelines for ethical practice of physical therapy

   (5 marks × 4 = 20 marks)

3. **Brief Answers:**

3A. Two basic requirements for a physiotherapy clinic in a primary care center

3B. Principles of autonomy

3C. Define confidentiality.

3D. Name the modes of public education.

3E. Define distributive justice.

   (2 marks × 5 = 10 marks)

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✍ **Answer ALL questions.**

✍ **Answer SECTION 'A' and SECTION 'B' in TWO separate answer books.**

SECTION 'A': COMMUNITY MEDICINE/SOCIAL AND PREVENTIVE MEDICINE: 40 MARKS

✍ **Essay Question:**

1. Describe the agent, host and environmental factors of leprosy. Discuss the modes of transmission and incubation period of this disease.

(6+3+1 = 10 marks)

2. **Write short notes on:**

2A. What is Pneumoconiosis? Write briefly on silicosis.

(1+4 = 5 marks)

2B. What are live vaccines? Explain with examples. What are their advantages over inactivated vaccines?

(1+4 = 5 marks)

2C. Write a note on screening for diabetes.

(5 marks)

2D. Describe the principles of health education.

(5 marks)

2E. What is triage? Explain.

(1+4 = 5 marks)

2F. Describe the components of National Goitre Control Programme.

(5 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

1. Is Sociology a science? Explain the uses of the knowledge of Sociology to the Physiotherapists.

(5+5 = 10 marks)

2. What are social groups? Discuss the influence of formal and informal groups on health and sickness.

(2+8 = 10 marks)

3.   What is Juvenile Delinquency? How does it affect health? Suggest remedies.

(2+4+4 = 10 marks)

4.   **Write short notes on the following:**

4A. Family and nutrition

4B. Impact of culture on human behavior

(5 marks × 2 = 10 marks)