# MANIPAL UNIVERSITY

## THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2012

### SUBJECT: CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
### (COMMON FOR BOTH OLD & NEW REGULATION)

Tuesday, June 12, 2012

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

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

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

1. Classify nerve injuries. What is Tinels' Sign Treatment options for a case of foot drop?
(10 marks)

2. Enumerate the principles of fracture management. Enumerate five complications of fractures.
(10 marks)

3A. Pressure sore management and prevention.
3B. Mechanism, clinical features and management of ankle sprain.
3C. Diagnostic criteria of rheumatoid arthritis.
3D. Rehabilitation after Colles' fracture and Reflex Sympathetic Dystrophy.

(20 marks)

### SECTION "B": RHEUMATOLOGY: 40 MARKS

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

4A. Enlist the clinical features of Juvenile RA.
4B. Clinical features of Perthe's disease.
4C. Describe Calcium metabolism using a suitable diagram.
4D. Explain the etiopathogenesis and list common causative organisms of Reactive arthritis. Mention the components of Reiter's syndrome.
4E. Discuss treatment options for patients with psoriatic arthritis.

(5×4 = 20 marks)

5. **Answer any TWO out of the following THREE questions:**

5A. Define Rheumatoid arthritis.
5B. Describe the clinical features of classical RA.
5C. Enlist salient investigations to diagnose RA.

(1+5+4 = 10 marks)

6A. Define osteoarthritis.
6B. Describe the etiopathogenesis of OA and list 2 common causes of secondary OA.
6C. Describe the clinical features of OA.

(1+3+6 = 10 marks)

7A. Define scleroderma and discuss its etiopathogenesis.
7B. Enlist the clinical features and salient investigations for confirming the diagnosis.

(2+(4+4) = 10 marks)

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# MANIPAL UNIVERSITY
## THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – JUNE 2012
### SUBJECT: NEUROSCIENCES/NEUROLOGICAL SCIENCE
### (COMMON FOR BOTH OLD & NEW REGULATION)

Thursday, June 14, 2012

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

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

1   Multiple sclerosis - Etiopathogenesis, Clinical features, Management.

2A.  What is quadriparesis? Enumerate clinical features of high cervical cord lesion with Management.

2B.  Write a detailed note on neurogenic bladder.

3.   Meningitis- Etiopathogenesis, clinical features, management.

4.   **Short notes:**

4A.  Wilson disease.

4B.  Carbon monoxide poisoning.

4C.  Alcohol toxicity.

4D.  Recreational drug abuse.

5.   **Short notes:**

5A.  Motor neuron disease.

5B.  Duchenne muscular dystrophy.

5C.  Down's syndrome.

5D.  Cerebral palsy.

# MANIPAL UNIVERSITY

## THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2012

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

Saturday, June 16, 2012

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

✍ **Answer ALL questions.**

**1.    Essay questions:**

1A.  Explain the clinical features and physiotherapy management of Lateral Medullary Syndrome.

(4+6 = 10 marks)

1B.  Explain the clinical features and physiotherapy management of Parkinson's disease.

(4+6 = 10 marks)

**2.    Short notes:**

2A.  Write acute physiotherapy management of Myelomeningocele.

2B.  Mention prinicples of Brunnstrom's Approach.

2C.  Add a note on coma stimulation techniques.

2D.  Mention energy conservation techniques.

2E.  Write the physiotherapy management for postural instability in cerebellar disorders.

2F.  Mention the vestibular adaptation exercises.

2G.  Dot down physiotherapy management for gait dysfunction in Diplegic CP.

2H.  Mention the clinical features of Progressive Bulbar Palsy.

(5×8 = 40 marks)

**3.    Brief answers.**

3A.  What is Neurulation?

3B.  Mention any four Rood's Inhibitory techniques.

3C.  What is Syringobulbia?

3D.  What is Uhthoff's phenomenon and mention the condition where it is present?

3E.  Mention the types of Motor neuron disease.

3F.  What is Myerson's sign?

3G.  Define Spasticity.

3H.  What is Dysmetria?

3I.  Mention any four features of Upper Motor Neuron Lesion.

3J.  Define Kernig's sign.

(2×10 = 20 marks)

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# MANIPAL UNIVERSITY

## THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2012

### SUBJECT: PHYSIOTHERAPY IN ORTHOPAEDICS AND RHEUMATOLOGY
#### (COMMON FOR BOTH OLD & NEW REGULATION)

Tuesday, June 19, 2012

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

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✍ **Answer all questions:**

1. **Essay questions:**

1A. Define arthroplasty. What are the indications for hip arthroplasty? How will you manage a patient aged 63 years with right hip hemi arthroplasty.

(2+2+6 = 10 marks)

1B. Write the course of ulnar nerve. What is the common deformity seen with ulnar nerve injury. Write in detail the management of ulnar nerve injury at cubital tunnel.

(4+2+4 = 10 marks)

2. **Short Notes:**

2A. Write the etiology for thoracic outlet syndrome and physiotherapy management of the same.
2B. Mention types of prosthesis used for total knee replacement.
2C. Write the physiotherapy management of recurrent anterior dislocation of shoulder.
2D. Write a note on physiotherapy management following grade I ACL injury.
2E. Mention the indications and types of Spinal orthotics.
2F. Mention the grades of spondylolisthesis and write the physiotherapy management for grade 1 spondylolisthesis.
2G. Add a note on physiotherapy treatment for tendoachillis tendinitis in basketball player.
2H. Dot down the physiotherapy management for tennis elbow.

(5×8 = 40 marks)

3. **Brief answers:**

3A. Write down the capsular pattern for hip joint.
3B. What is the mechanism of injury for acromioclavicular joint dislocation?
3C. What is scoliosis, how it is measured?
3D. Name four special test for Sacroiliac joint dysfunction.
3E. What are early complication of a fracture?
3F. How Hawkins Kennedy test is performed?
3G. Write briefly on passive accessory movement testing.
3H. What is SACH foot?
3I. What is Tinel sign?
3J. Write a note on resisted isometric test.

(2×10 = 20 marks)

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# MANIPAL UNIVERSITY

## THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2012

### SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS
### (NEW REGULATION)

Thursday, June 21, 2012

Time: 10:00-11.30 Hrs                                           Maximum Marks: 40

✍ **Answer All questions.**

✍ **Essay Questions:**

1.  Write a plan for physiotherapy private clinic in semi-urban setup?

                                                                   (10 marks)

2.  **Short Notes:**

2A. Write five WCPT guidelines for ethical practice in physical therapy.

2B. Describe the need for informed Consent in clinical research.

2C. What are the ethical issues with regard to medical management for patients with HIV.

2D. Explain the need for communication in physiotherapy clinical practice.

                                                          (5×4 = 20 marks)

3.  **Brief Answer:**

3A. What is patient confidentiality?

3B. Mention any four uses of documentation.

3C. What is Medical Negligence?

3D. Any two methods for motivating staff morale.

3E. Name two organizations that funds medical research.

                                                          (2×5 = 10 marks)

# MANIPAL UNIVERSITY

## THIRD YEAR B.P.T. DEGREE EXAMINATION – JUNE 2012

### SUBJECT: COMMUNITY MEDICINE AND SOCIOLOGY
#### (NEW REGULATION)
Saturday, June 23, 2012

Time 10:00-13:00 Hours                                    Maximum Marks: 80

✍ Answer ALL questions.

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

### SECTION 'A': COMMUNITY MEDICINE : 40 MARKS

✍ Long question:

1. What are the causes for Iron Deficiency Anemia? Write briefly on clinical features and prevention of Iron deficiency Anemia.

(3+7 = 10 marks)

2. Write short notes:

2A. Discuss about the barrier methods of Contraception.

2B. Modes of intervention for primary prevention.

2C. Clinical Signs and prevention of Iodine deficiency disorders.

2D. Causes of Maternal Mortality.

2E. Prophylaxis against Vitamin A Deficiency.

2F. Prevention and control of Low Birth Weight.

(5×6 = 30 marks)

### SECTION 'B': SOCIOLOGY : 40 MARKS

3. What is nutrition? Family and nutrition are related. Discuss.

(2+8 = 10 marks)

4. What is stress? Explain the causes and its consequences on health. ·

(2+8 = 10 marks)

5. Mention the agencies of socialization. How do they socialize the individual?

(2+8 = 10 marks)

6. Short Answers:

6A. Consequences and remedies for alcoholism.

6B. Meaning and the effect of cultural lag on health.

(5×2 = 10 marks)