

MANIPAL UNIVERSITY**THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2014****SUBJECT: ORTHOPAEDICS AND RHEUMATOLOGY/CLINICAL ORTHOPAEDICS AND RHEUMATOLOGY
(COMMON FOR OLD & 2008 REGULATION/2010 & 2011 BATCH)**

Wednesday, December 17, 2014

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. Describe the clinical features, management and complications of supracondylar fracture of the humerus in a 9 year old boy.
(10 marks)
2. Enumerate malignant tumours of the bone. Discuss the radiological features and management of Osteosarcoma.
(10 marks)
- 3A. Wrist Drop
3B. Tennis Elbow
3C. Management of a paraplegic patient
3D. Lumbo Sacral Corset
(20 marks)

SECTION "B": RHEUMATOLOGY: 40 MARKS

4. **Write short notes on any FOUR of the following FIVE questions:**
 - 4A. Clinical Features and management of POLYARTERITIS NODOSA
 - 4B. Etiology and clinical features of GOUT
 - 4C. BEHCET'S SYNDROME
 - 4D. STILL'S DISEASE
 - 4E. SJOGREN'S SYNDROME

(5 marks × 4 = 20 marks)

✍ **Answer any TWO of the following THREE questions:**

- 5A. Define RHEUMATOID ARTHRITIS.
- 5B. Discuss the etiology and pathophysiology of Rheumatoid Arthritis.
- 5C. What are the basic investigations to be ordered in a patient with Rheumatoid Arthritis?
- 5D. Enumerate the drugs used in the management of Rheumatoid Arthritis.
(1+4+3+2 = 10 marks)

- 6A. Discuss the diagnostic criteria of SLE.
- 6B. Enumerate drugs used in the management of SLE and its complications.
- 6C. Add a note on ANA.

(4+4+2 = 10 marks)

- 7A. Define HENoch SCHOLIEen PURPURA.
- 7B. Discuss the demographics, etiopathogenesis and clinical features of HSP.
- 7C. Discuss how to investigate and treat a patient with HSP.

(1+5+4 = 10 marks)



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MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: NEUROSCIENCES/NEUROLOGICAL SCIENCE
(OLD & 2008 REGULATION/2010 & 2011 BATCH)

Thursday, December 18, 2014

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

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

1. Define cerebrovascular accident and transient ischaemic attack. Describe the symptoms, signs and management of a patient with left middle cerebral artery infarct.
2. **Write short notes on:**
 - 2A. Enumerate differences between UMN (upper motor neuron) and lower motor neuron lesions
 - 2B. Bells palsy – symptoms, signs and management
 - 2C. Poliomyelitis
 - 2D. Vitamin B12 – deficiency syndromes
3. **Write short notes on:**
 - 3A. Spasticity – pathophysiology and management
 - 3B. Parkinsons disease
 - 3C. Limb girdle muscular dystrophy
 - 3D. Optic neuritis
4. Describe the causes clinical features and management of large fibre peripheral neuropathy.
5. Enumerate symptoms, signs, causes and management of orthostatic hypotension.



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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2014

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

Friday, December 19, 2014

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL questions.**

1. Essay Questions:

1A. Explain the clinical features and management in different stages of Guillaine Barre Syndrome.

(4+6 = 10 marks)

1B. Define Coma. Explain the stages of RLA scale of cognitive functioning. Mention any four techniques used in coma stimulation.

(2+6+2 = 10 marks)

2. Write short notes on:

2A. Principles of Proprioceptive Neuromuscular Facilitation

2B. Movement transitions in hemiplegia

2C. Tests for incoordination

2D. Bell's palsy

2E. Care of anaesthetic hand and foot

2F. Management of posture and gait problems in Parkinson's disease

2G. Physiotherapy management of a child with spastic diplegia

2H. Energy conservation techniques

(5 marks × 8 = 40 marks)

3. Brief Answers:

3A. What is homolateral synkinesis?

3B. Mention any two uses of tilting table.

3C. What is heterotrophic ossification?

3D. What is Gower's sign?

3E. What is Uthoff's symptom?

3F. Mention any four types of neurogenic bladder.

3G. What is Tonic lumbar reflex?

3H. Mention any two treatment techniques of rigidity.

3I. Mention any two differences between right and left hemisphere stroke.

3J. What is dissociated sensory loss?

(2 marks × 10 = 20 marks)



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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2014

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

Saturday, December 20, 2014

Time: 10:00-13:00 Hrs.

Maximum Marks: 80

Answer ALL questions.

1. Essay Questions.

1A. Classify fracture neck of femur. Enumerate the complications. Write the physiotherapy management following hemiarthroplasty.

(4+2+4 = 10 marks)

1B. Define spondylolisthesis. How would you assess a patient with spondylolisthesis at L5-S1 level? Discuss the physiotherapy management.

(1+4+5 = 10 marks)

2. Write briefly:

2A. Volkmann's ischemic contracture

2B. Quadriceps contusion

2C. Clinical features of thoracic outlet syndrome

2D. Laboratory finding and extra articular manifestations in rheumatoid arthritis

2E. Define arthrodesis. List the common indications for arthrodesis of ankle and knee joint.

2F. Common site of entrapment of radial nerve in upper limb. Write down neural mobilization technique used.

2G. Achilles tendinitis, and its physiotherapy management

2H. Orthosis used in osteoarthritis of knee joint

(5 marks × 8 = 40 marks)

3. Write very briefly:

3A. Clinical features of piriformis syndrome

3B. Dupuytren's contracture

3C. Jefferson fracture

3D. Metatarsalgia

3E. SACH foot

3F. Two special tests for iliotibial band friction syndrome

3G. Slump test

3H. Zones of flexor tendon injury in hand

3I. Lumbarization

3J. Define neurolysis

(2 marks × 10 = 20 marks)



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THIRD YEAR B.P.T. DEGREE EXAMINATION – DECEMBER 2014

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

Monday, December 22, 2014

Time: 10:00-11.30 Hrs

Maximum Marks: 40

✍ Answer ALL questions.

✍ Essay questions:

1. Loyalty to the employer and service to the society – debate

(10 marks)

2. Write short answers:

2A. What is conflict of interest in clinical practice and give an example to illustrate the same.

2B. Helsinki II Declaration

2C. Discuss the safety issues while planning a department.

2D. Aims and objectives of IAP

(5 marks × 4 = 20 marks)

3. Write briefly:

3A. What is beneficence?

3B. What is the preferred Physiotherapist patient ratio?

3C. What is vicarious liability?

3D. What is referee fee?

3E. What is confidentiality?

(2 marks × 5 = 10 marks)



MANIPAL UNIVERSITY

THIRD YEAR B.P.T./B.O.T. DEGREE EXAMINATION – DECEMBER 2014

SUBJECT: COMMUNITY MEDICINE & SOCIOLOGY/SOCIAL & PREVENTIVE MEDICINE AND SOCIOLOGY
(2008 REGULATION/2011 BATCH)

Tuesday, December 23, 2014

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/SOCIAL AND PREVENTIVE MEDICINE : 40 MARKS

✍ **Essay Question:**

1. Describe the epidemiological determinants of diabetes. Explain the preventive measures.
(5+5 = 10 marks)
2. **Write short notes on:**
 - 2A. Describe the modes of transmission of diseases with examples.
(5 marks)
 - 2B. Define Pneumoconiosis. Describe Asbestosis in detail.
(1+4 = 5 marks)
 - 2C. Describe briefly the work of World Health Organization.
(5 marks)
 - 2D. Describe the "risk approach" in antenatal care.
(5 marks)
 - 2E. What is disinfection? Describe any four disinfectants mentioning their type.
(1+4 = 5 marks)
 - 2F. Write treatment categories and their regimen in DOTS chemotherapy for tuberculosis in India.
(5 marks)

SECTION 'B': SOCIOLOGY : 40 MARKS

3. Explain the meaning and role of primary and secondary groups in hospital.
(10 marks)
4. What is family? Discuss the nature and functions of modern family in relation to health.
(2+8 = 10 marks)
5. Explain the consequences of poverty on health. Suggest remedies to prevent them.
(5+5 = 10 marks)
6. **Short Answers:**
 - 6A. Social security measures to the disabled
 - 6B. Social change and stress

(5 marks × 2 = 10 marks)

