

March 2009

[KU 181]

Sub. Code: 2075

M.D. DEGREE EXAMINATION

Branch XIX – PHYSICAL MEDICINE AND REHABILITATION

Paper II – (For candidates admitted from 2004-2005 to 2007-2008)

**PHYSICAL MEDICINE AND REHABILITATION – I
(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY GENETICS, INDUSTRIAL
INJURIES, SPORTS INJURIES, ELECTRO DIAGNOSIS,
MUSCULOSKELETAL DISORDERS, NEUROMUSCULAR
DISORDERS)**

Q.P. Code : 202075

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary

Answer ALL questions

I. Essay questions : (2 x 20 = 40)

1. Discuss bladder rehabilitation in a 35 year old male with T12 paraplegia of 6 months duration.
2. Give a brief account of anatomy and biomechanics of cervical spine. Discuss the treatment options for cervical IVDP.

II. Write short notes on : (10 x 6 = 60)

1. Hydrotherapy.
2. Single fibre EMG.
3. Diabetes and exercise.
4. Complex Regional pain syndrome.
5. Overuse injury.
6. Architectural barriers.
7. Erb's palsy.
8. Management of stress incontinence in women.
9. Functional Independence measure.
10. Instrumental activities of daily living.

MAY 2011

[KY 181]

Sub. Code: 2075

M.D. DEGREE EXAMINATION

BRANCH XIX – PHYSICAL MEDICINE AND REHABILITATION

PHYSICAL MEDICINE AND REHABILITATION – I

**(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY, GENETICS, INDUSTRIAL INJURIES,
SPORTS INJURIES, ELECTRO DIAGNOSIS, MUSCULOSKELETAL
DISORDERS, NEUROMUSCULAR DISORDERS)**

Q.P. Code : 202075

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Discuss the Etiopathology, clinical features, radiological findings and management of a young male patient suffering from Ankylosing spondylitis. | 11 | 35 | 15 |
| 2. Discuss the Rehabilitation management of a 60 year old male patient with Left hemiplegia with hemineglect. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Rheumatoid hand deformities. | 4 | 10 | 7 |
| 2. Abnormal spontaneous potentials. | 4 | 10 | 7 |
| 3. Kinetic chain exercises. | 4 | 10 | 7 |
| 4. Complications of Neurogenic bowel. | 4 | 10 | 7 |
| 5. Radiological assessment of club feet. | 4 | 10 | 7 |
| 6. Parsonage Turner syndrome. | 4 | 10 | 7 |
| 7. Post polio syndrome. | 4 | 10 | 7 |
| 8. Neuroendocrine abnormalities after TBI. | 4 | 10 | 7 |
| 9. Electrodiagnostic findings in muscular dystrophy. | 4 | 10 | 7 |
| 10. PLISSIT MODEL in sexual rehabilitation. | 4 | 10 | 7 |

April 2012

[LA 181]

Sub. Code: 2075

M.D. DEGREE EXAMINATION

BRANCH XIX – PHYSICAL MEDICINE AND REHABILITATION

**PHYSICAL MEDICINE AND REHABILITATION – I
(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY, GENETICS, INDUSTRIAL INJURIES, SPORTS
INJURIES, ELECTRO DIAGNOSIS, MUSCULOSKELETAL DISORDERS,
NEUROMUSCULAR DISORDERS)**

Q.P. Code : 202075

Time : 3 hours (180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

1. Discuss the rehabilitation management of a 3 year old girl with lumbar meningomyelocele.
2. Discuss the clinical presentation, electro diagnostic findings and management of a 30year old shop-keeper with traumatic brachial plexus injury at level of the upper trunk.

16 35 15

16 35 15

II. Write notes on :

1. Explain Implicit/Explicit memory loss.
2. Classify Congenital Skeletal Limb Deficiency.
3. Clinical presentation in DISH (Diffuse Idiopathic Skeletal Hyperostosis).
4. Management of neurogenic claudication.
5. Role of Cryotherapy in Rehabilitation.
6. Predisposing factors and management in Adhesive Capsulitis.
7. Radiological differentiation between Osteoarthritis and Rheumatoid arthritis of the knee.
8. Clinical assessment in Persistent Vegetative State.
9. Management of Carpal Tunnel Syndrome.
10. Management of a Grade IV sacral pressure sore in a Paraplegic.

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**M.D. DEGREE EXAMINATION
BRANCH XIX – PHYSICAL MEDICINE & REHABILITATION**

**PHYSICAL MEDICINE & REHABILITATION - I
(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY, GENETICS, INDUSTRIAL INJURIES,
SPORTS INJURIES, ELECTRODIAGNOSIS, MUSCULOSKELETAL
DISORDERS, NEUROMUSCULAR DISORDERS)**

Q.P.Code: 202075

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the clinical and diagnostic approach to a patient with suspected myopathy. Outline the principles of rehabilitation of a 5 year old child with Duchenne muscular dystrophy.
2. Discuss the physiology and pathophysiology of pain. Write a note on the psychological issues related to chronic pain.

II. Write notes on:

(10X7=70)

1. Common sites of nerve entrapment in the upper limbs
2. Describe the issues of aging with cerebral palsy
3. Intracavernous penile injections for restoration of erectile dysfunction in spinal cord injury
4. Abnormal spontaneous potentials
5. Describe the F wave and its clinical significance
6. Mechanism, uses and contraindications of Interferential current therapy
7. Outline the principles of neurofacilitation techniques
8. Outline the therapy approaches in cerebral palsy
9. Upper urinary tract evaluation in spinal cord injury
10. What are the clinical applications of botulinum toxin?

[LD 181]

OCTOBER 2013

Sub. Code: 2075

M.D. DEGREE EXAMINATION

BRANCH XIX – PHYSICAL MEDICINE & REHABILITATION

PHYSICAL MEDICINE & REHABILITATION - I

**(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY, GENETICS, INDUSTRIAL INJURIES,
SPORTS INJURIES, ELECTRODIAGNOSIS, MUSCULOSKELETAL
DISORDERS, NEUROMUSCULAR DISORDERS)**

Q.P.Code: 202075

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the etiology, clinical features, radiological findings and management of thoracic level scoliosis in a 12 year old girl. Write a note on the biomechanical principles employed in the use of orthosis to halt curve progression.
2. Discuss the physiologic mechanisms accounting for spasticity.
Discuss the pharmacological treatment of spasticity.

II. Write notes on:

(10 x 7 = 70)

1. Describe the Blink reflex and its clinical significance.
2. Discuss the use of oral medications to treat erectile dysfunction.
3. Explain the Ranchos Los Amigos scale of cognitive function.
4. Describe the radiological changes in osteoarthritis knee.
5. Write a note on Plyometric exercises .
6. Imaging for lumbar intervertebral disc prolapse.
7. Discuss the De Lorme protocol.
8. Discuss the use of ultrasound in musculoskeletal conditions.
9. Briefly describe the electrophysiological diagnosis of lumbosacral Radiculopathy.
10. Write a note on the structure of the bladder-receptors, neurotransmitters and innervation.

(LE 181)

APRIL 2014

Sub. Code:2075

M.D. DEGREE EXAMINATION

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PHYSICAL MEDICINE & REHABILITATION - I

**(INCLUDING PHYSIOTHERAPY, OCCUPATIONAL THERAPY,
PAEDIATRICS, RADIOLOGY, GENETICS, INDUSTRIAL INJURIES,
SPORTS INJURIES, ELECTRO DIAGNOSIS, MUSCULOSKELETAL
DISORDERS, NEUROMUSCULAR DISORDERS)**

Q.P.Code: 202075

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the formation of lumbosacral plexus. Discuss the diagnostic features of plexopathy Radiculopathy sand peripheral neuropathy.
2. Rehabilitation of a diplegic cerebral palsy child.

II. Write notes on:

(10X7=70)

1. Genetic counselling.
2. Sympathetic block for pain relief.
3. Fibromyalgia.
4. Rotator cuff injury.
5. MRI features of hypoxic encephalopathy.
6. Congenital talipes equino varus.
7. Hipdisarticulation prosthesis.
8. Congenital torticollis.
9. Kinetic chain exercise.
10. Dystrophin.
