

**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 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:

(10X7=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.
