

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

**PHYSICAL MEDICINE & REHABILITATION - III
(RECENT ADVANCES IN REHABILITATION AND COMMUNITY
BASED REHABILITATION)**

Q.P.Code: 202074

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Describe in detail about disability evaluation and its implications in the Indian context.
2. What are the different mechanisms of plasticity of the brain?
Discuss how plasticity is useful in rehabilitation?

II. Write notes on:

(10X7=70)

1. Describe the methods of suspending transfemoral prosthesis.
2. Explain the use of assistive technology for hearing impairment.
3. Describe the socket designs in transtibial prosthesis.
4. Clinical application of immunoblotting and immunostaining of muscle.
5. Describe the clinical utility of Sphincter electromyography.
6. Explain the principle, indications and technique of spinal cord stimulation to control intractable leg pain.
7. List the indications and procedure of video-urodynamics.
8. Discuss the principle, indications, side effects and complications of vertebroplasty.
9. Define and explain the principle of plyometric exercises.
10. Explain the use of computer aided design in prosthetic fabrication.
