

(LO 176)

MAY 2019

Sub. Code: 2070

**M.D. DEGREE EXAMINATION**  
**BRANCH XIX – PHYSICAL MEDICINE AND REHABILITATION**  
**PAPER I – APPLIED BASIC SCIENCES RELATING TO PHYSICAL**  
**MEDICINE AND REHABILITATION**

*Q.P. Code: 202070*

**Time: Three Hours**

**Maximum: 100 Marks**

**Write notes on:**

**I. ANATOMY** **(4 x 5 = 20)**

1. Lumbosacral junction.
2. Blood supply of brain.
3. Maintenance of normal posture.
4. Anatomy of brachial plexus.

**II. PHYSIOLOGY** **(4 x 5 = 20)**

1. Physiology of normal bowel.
2. Physiological effects of heat.
3. Inman's six determinants of gait.
4. Action potential.

**III. BIOCHEMISTRY** **(3 x 5 = 15)**

1. Vitamin D in calcium homeostasis.
2. CPK in muscular dystrophy.
3. C reactive protein.

**IV. PHARMACOLOGY** **(3 x 5 = 15)**

1. Dantrolene.
2. Calcitonin.
3. Medications used to treat spasticity.

**V. MICROBIOLOGY** **(3 x 5 = 15)**

1. Transfusion transmitted viral diseases.
2. Rheumatoid factor.
3. Gas gangrene.

**VI. PATHOLOGY** **(3 x 5 = 15)**

1. Atherosclerosis.
2. Histopathology of Duchenne muscular dystrophy.
3. Histopathology of chronic wounds.

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