

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

**APPLIED BASIC SCIENCES RELATING TO PHYSICAL MEDICINE
AND REHABILITATION**

Q.P.Code: 202070

Time: Three Hours

Maximum: 100 marks

Write notes on:

I. ANATOMY (4X5=20)

1. Function of Basal ganglia
2. Subtalar joint
3. Piriformis muscle
4. Q-angle (quadriceps angle)

II. PHYSIOLOGY (4X5=20)

1. Effect of exercises on cardiovascular activity
2. Normal swallowing
3. Frontal lobe functions
4. Properties of motor unit

III. BIO-CHEMISTRY (3X5=15)

1. Alkaline phosphatase
2. Creatinine Phosphokinase
3. Dopamine

IV. PHARMACOLOGY (3X5=15)

1. Modafinil
2. Serotonin – Norepinephrine Reuptake Inhibitors
3. Risedronate

V. MICROBIOLOGY (3X5=15)

1. HLA B27
2. Hospital acquired infections
3. Helicobacter pylori

VI. PATHOLOGY (3X5=15)

1. Osteomalacia
2. Enthesopathy
3. Buerger's disease
