

M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY
PAPER I – APPLIED BASIC SCIENCES IN ORTHOPAEDIC SURGERY

Q.P.Code: 222219

Time: Three Hours

Maximum: 100 Marks

Write notes on:

- I. Anatomy** **(4 x 5 = 20)**
1. Femoral anteversion.
 2. Carpel tunnel.
 3. Perforators of thigh.
 4. Enchondral ossification.
- II. Physiology** **(4 x 5 = 20)**
1. Synovial fluid.
 2. Coagulation pathways.
 3. Neuromuscular transmission.
 4. Strength-duration curve.
- III. Biochemistry** **(3 x 5 = 15)**
1. Bone resorption markers.
 2. Anabolic hormones of the bone.
 3. Calcitonin.
- IV. Pharmacology** **(3 x 5 = 15)**
1. Low molecular weight heparin.
 2. Platelet rich plasma.
 3. Alendronate vs Teriparatide.
- V. Microbiology** **(3 x 5 = 15)**
1. Universal precaution.
 2. Hepatitis B.
 3. Gas gangrene.
- VI. Pathology** **(3 x 5 = 15)**
1. Fat embolism.
 2. Neonatal osteomyelitis.
 3. Psoas abscess.
