

(LD 212)

OCTOBER 2013

Sub. Code: 2219

**M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY
APPLIED BASIC SCIENCES IN ORTHOPAEDIC SURGERY
Q.P. Code : 222219**

Time: Three Hours

Maximum: 100 marks

Write notes on:

I. ANATOMY

(4X5=20)

1. Axillary artery.
2. Ankle joint.
3. Vertebral canal.
4. Surgical anatomy of posterior approach to hip joint.

II. PHYSIOLOGY

(4X5=20)

1. Physiology of Vitamin D.
2. Muscle spindle and physiology of knee reflex (Deep tendon reflex).
3. Physiology of bone morphogenic proteins.
4. Sports physiology.

III. BIO-CHEMISTRY

(3X5=15)

1. Collagen.
2. Biochemical markers of bone tumours.
3. Purine metabolism.

IV. PHARMACOLOGY

(3X5=15)

1. Thromboprophylactic drugs.
2. Chemotherapy in osteosarcoma.
3. Post-operative pain management in orthopaedic surgery.

V. MICROBIOLOGY

(3X5=15)

1. Periprosthetic infections in orthopaedics.
2. Gonococcal arthritis.
3. Sterilization of orthopaedic implants and instruments.

VI. PATHOLOGY

(3X5=15)

1. Pathology of acute inflammation.
2. Psoriatic arthropathy.
3. Spinal muscular atrophy (Infantile motor neuron disease).
