

**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. What is Corona mortis?
2. No man's land Zone 2.
3. Ligaments supporting medial longitudinal arch of foot.
4. Blood supply of Scaphoid.

**II. Physiology**

**(4 x 5 = 20)**

1. Metabolic function of Kidney.
2. PTH Parathyroid Hormone.
3. Gout.
4. Vitamin C deficiency.

**III. Biochemistry**

**(3 x 5 = 15)**

1. CRP (C- Reactive protein)
2. ALKAPTONURIA.
3. GLUCAGON.

**IV. Pharmacology**

**(3 x 5 = 15)**

1. 4<sup>th</sup> generation Cephalosporins.
2. Interferons.
3. Metronidazole.

**V. Microbiology**

**(3 x 5 = 15)**

1. Autoclave sterilization.
2. Myobacterium Tuberculosis.
3. T. Lymphocytes.

**VI. Pathology**

**(3 x 5 = 15)**

1. Bence-Jones Protein.
2. Bone marrow aspiration.
3. Anti CCP antibody.

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