

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 1022]

OCTOBER 2022

Sub. Code: 2219

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. Brachial Plexus.
2. Arches of Foot.
3. Draw the Cross-Section of Spinal Cord and Mention the functions of the Ascending and Descending Tracts.
4. Periosteum.

II. PHYSIOLOGY (4 x 5 = 20)

1. Structure and Functions of Bone Cells.
2. Neuromuscular Junction.
3. Coagulation Pathway.
4. Synovial Fluid.

III. BIOCHEMISTRY (3 x 5 = 15)

1. Collagen.
2. Fluorine.
3. Serum Electrophoresis.

IV. PHARMACOLOGY (3 x 5 = 15)

1. Low-molecular-weight heparins (LMWHs).
2. Bisphosphonates.
3. Rifampicin.

V. MICROBIOLOGY (3 x 5 = 15)

1. Antibiotic resistance.
2. Clostridium Welchii.
3. Reverse Transcriptase Polymerase Chain Reaction.

VI. PATHOLOGY (3 x 5 = 15)

1. F.N.A.C - Fine Needle Aspiration Cytology.
2. Tubercle.
3. Myositis ossificans.
