

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

(D.ORTHO. 0522)

MAY 2022

Sub. Code: 3103

DIPLOMA IN ORTHOPAEDICS (D.ORTHO.) EXAMINATION

**APPLIED BASIC SCIENCES IN ORTHOPAEDICS AND
GENERAL PRINCIPLES OF SURGERY**

Q.P. Code: 353103

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the structure of various types of cartilage, and correlate with their function? Add a note on the nutrition of articular cartilage?
2. Describe basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.

II. Write notes on:

(10 x 7 = 70)

1. Layers of physis.
2. Calcitonin.
3. Proteoglycan.
4. Hospital infections.
5. Massive-transfusion protocol.
6. Ingrown toe nail.
7. Pathology of wound healing.
8. Chemotherapeutic drugs in bone tumours.
9. Pathology of gas gangrene.
10. Prophylactic antibiotic.
