

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

[MS 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2237

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER II – TRAUMATOLOGY INCLUDING RECENT ADVANCES

Q.P. Code: 222237

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the classification, mechanism of injury, clinical findings, investigation and treatment of Calcaneal fracture.
2. Explain the Principle behind Functional Cast Bracing. How is it used in the treatment of Tibial Shaft Fracture? What are its Merits and Demerits?

II. Write notes on:

(10 x 7 = 70)

1. Damage Control Orthopaedics.
2. Weight Relieving Orthosis.
3. Mechanical Methods of assessing fracture healing of a long bone.
4. Which type of implant fixation is called the ‘‘Non-union generator’’ of a long bone, why?
5. Draw a diagram of Far-cortical locking with labelling and mention how it differs from regular locking.
6. Takakura-Tanaka Classification.
7. Growth Factors in Non-Union Treatment.
8. Osteonal union.
9. Gurd’s Criteria of fat embolism.
10. Mangled Extremity Severity Score (MESS Score).
