

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002**

M.D/ M.S DEGREE EXAMINATIONS: OCTOBER 2025

ORTHOPAEDICS

PAPER – I

Time: 3 Hours

Max Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write an essay on the following:

10 X 10 = 100

1. Discuss the biomechanics of the Hip joint.
2. Briefly describe the Coagulation cascade. Discuss the role of Tranexamic acid in Orthopaedic surgery.
3. What are the indications for Bone grafting? Discuss the types, advantages, and disadvantages of Autogenous bone grafting.
4. Discuss the differential diagnosis of an acutely inflamed 1st metatarsophalangeal in a middle-aged male.
5. Discuss the clinical features, diagnosis, and management of acute Osteomyelitis in a child.
6. What is the composition and function of Synovial fluid? Discuss the significance of synovial fluid analysis.
7. What is Plate induced osteoporosis? What is the difference between primary and secondary bone healing?
8. Discuss Calcium homeostasis. Describe the clinical features and management of Hyperparathyroidism.
9. What is Heterotrophic ossification? What would be your approach to its occurrence following hip trauma?
10. Describe your approach to Angular deformity of the Knees in children < 8 years old.
