

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

M.S. DEGREE EXAMINATION - May 2019

ORTHOPAEDICS

PAPER I: APPLIED BASIC SCIENCES IN ORTHOPAEDICS

Time: Three hours

Maximum: 100 marks

I. ANATOMY : (4 x 5 = 20)

1. Anatomy of Rotator Cuff
2. Radial nerve course and its supply
3. Ligaments of knee joint
4. Blood supply of Talus and its clinical importance.

II. PHYSIOLOGY : (4 x 4 = 16)

5. Strength duration curve
6. Role of central venous pressure monitoring in case of PolyTrauma
7. Isometric and Isotonic exercises
8. Babinski reflex

III. BIOCHEMISTRY : (4 x 4 = 16)

9. Calcium metabolism
10. Gout
11. Parathyroid hormone
12. Tumour markers.

IV. PHARMACOLOGY : (4 x 4 = 16)

13. Drugs used in Treatment of Osteoarthritis
14. Antibiotic prophylaxis in orthopaedics
15. Local infiltration of hydrocortisone.
16. Prostaglandins.

V. PATHOLOGY : (4 x 4 = 16)

17. Osteochondroma
18. Pathogenesis of Volkmann ischemia of upper limb
19. Etiopathology of osteogenesis imperfecta
20. Renal osteodystrophy.

VI. MICROBIOLOGY : (4 x 4 = 16)

21. Spinal tuberculosis
22. Osteomyelitis
23. Surgical site infection
24. MRSA
