

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM
M.S. DEGREE EXAMINATION - October 2018**

ORTHOPAEDICS

PART –I PAPER I: APPLIED BASIC SCIENCE IN ORTHOPAEDICS

Time: Three hours

Maximum: 100 marks

(Answer **ALL** questions)

Draw suitable diagrams wherever necessary

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| 1. ANATOMY : | (4 x 5 = 20) |
| a. Anatomy of shoulder joint
b. Blood supply of femoral head
c. Thenar space
d. Bohlers angle | |
| 2. PHYSIOLOGY : | (4 x 4 = 16) |
| a. Gait cycle
b. Wolf S.Law
c. Knee reflex
d. Physiology of osteoprogenitor cells | |
| 3. BIOCHEMISTRY : | (4 x 4 = 16) |
| a. Biomarkers in osteoarthritis
b. Calcitonin
c. Bence Jones proteins
d. Antinuclear antibodies | |
| 4. PHARMACOLOGY : | (4 x 4 = 16) |
| a. Antibiotic prophylaxis
b. DMRADS
c. Neoadjuvant chemotherapy of bone tumors
d. Bactericidal drugs in tuberculosis | |
| 5. PATHOLOGY : | (4 x 4 = 16) |
| a. Giant cell tumor
b. Pathogenesis of rheumatoid arthritis
c. Osteoporosis
d. Etiopathology of rickets | |
| 6. MICROBIOLOGY : | (4 x 4 = 16) |
| a. Post operative infections
b. Bacteriology of open fractures
c. Musculoskeletal sepsis
d. Gram negative organisms causing osteomyelitis | |
