

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**  
(A Deemed to be University)

**Post Graduate Examination January 2025**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Orthopaedics Paper I**

**QP CODE: P3181**

*Your answer should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

**10X10=100**

1. Describe the course of Radial Nerve along with its branches? Enumerate the differences between high Radial and low Radial nerve palsy? [3+3+4]
2. Discuss the pathophysiology of Achilles tendon rupture. Mention the indications, contra indication of open repair of Achilles tendon rupture and it's complication [4+2+2+2]
3. Enumerate the ossification centres around Knee. Differentiate between Endochondral and Membranous ossification. [5+5]
4. Describe the pathophysiology, clinical features and management of Madura mycosis. [3+3+4]
5. Define Osteoarthritis? Discuss the pathophysiology of it. Discuss the medical line of management of Osteoarthritis. [2+3+5]
6. Describe the following: a. Watson's test b. Terry Thomas sign c. Reverse Phalen's sign d. Allen's test e. Adson's test. [2+2+2+2+2]
7. How do you clinically assess the fluid inside the Knee joint? Discuss the clinical features and management of Haemarthrosis of Knee joint. [4+2+4]
8. Describe THREE clinical tests in diagnosing lumbar disc prolapse. Discuss the management options of Lumbar Disc Prolapse. [6+4]
9. Discuss the indications, pros and cons of reamed and unreamed of Intramedullary Nailing. [4+3+3]
10. Enumerate the metastatic lesions of Bone. What are the mechanisms and types of metastasis to Bone? [4+3+3]

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**  
(A Deemed to be University)

**Post Graduate Examination January 2025**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Orthopaedics Paper II**

**QP CODE: P3182**

*Your answer should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

**10X10=100**

1. Classify Acetabular fractures? Describe various radiological views and their importance in management of Acetabular fractures? (4+6)
2. Classify Intra articular fracture of Distal end Femur? What is Hoffa's fracture and describe the techniques of management of it? [4+2+4]
3. Classify Radial neck fractures. Describe various modalities of management of Radial neck fractures in children? Discuss Metaizeau technique? [4+3+3]
4. Define Sleeve fracture of Patella in children? Describe the clinical features, diagnosis and management of Sleeve Fracture of patella in children? [2+4+2+2]
5. Describe the aetiology, clinical features and management of Syndesmotic Ankle injuries? (2+4+4)
6. Describe the flexor tendon zones of the hand? Describe the management of cut flexor tendons of middle finger in zone III. [5+5]
7. Describe the indications, advantages and disadvantages of Sauve-Kapandji procedure? (4+3+3)
8. Describe the mechanism of injury, classification and management of Hangman's fracture. [3+3+4]
9. Explain the anatomy of Superior Shoulder suspensory complex? Describe the clinical features and management of Superior labral anterior posterior tear (SLAP)? [4+2+4]
10. What is Vacuum Assisted Closure (VAC)? How will you manage a case of compound fracture of Tibia without neurovascular deficit? [3+7]

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**  
(A Deemed to be University)

**Post Graduate Examination January 2025**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Orthopaedics Paper III**

**QP CODE: P3183**

*Your answer should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

**10X10=100**

1. Discuss the clinical, radiological findings and treatment of Congenital Vertical Talus. [2+3+5]
2. Describe aetiopathogenesis, clinical features, investigations and treatment of Vitamin-D Resistant Rickets. [2+2+3+3]
3. Discuss the classification of Osteogenesis Imperfecta. Describe the technique and complications of Sofield-Millar operation in Osteogenesis Imperfecta. [4+3+3]
4. Discuss the etio-pathogenesis and management of Fungal Osteomyelitis. [4+6]
5. Describe the etio-pathogenesis, clinical features, classification and Describe the various modalities of management of primary Osteoarthritis of Hip joint. [3+2+2+3]
6. What is amputation? Describe Enneking classification of amputations. [4+6]
7. What is Re-implantation? Mention its indications? Explain cold chain. [4+3+3]
8. Define laser therapy? Describe it's mechanism of action, indications, contra-indications and adverse reactions. [2+2+2+2+2]
9. Classify nerve injuries? What is 'motor march' and its significance? What is Tinel's sign and its significance? [3+3+4]
10. Describe the Disc anatomy. Discuss Degenerative Disc disease [3+7]

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**

**(A Deemed to be University)**

**Post Graduate Examination January 2025**

**Time: 180 Minutes**

**Max Marks: 100 Marks**

**Orthopaedics Paper IV**

**QP CODE: P3184**

*Your answer should be specific to the question asked*

*Draw neat labelled diagrams wherever necessary*

**10X10=100**

1. Define Tribology? Discuss in detail about the recent advances in tribology of Total Hip arthroplasty. (2 + 8)
2. Discuss Pathogenesis, Clinical features & management of Tuberculosis spine in a child 10 yrs old. (3+3+4)
3. Classify Achilles tendon injuries. Discuss treatment options of the neglected achillis tendon tear in a 40-yr old man. (4+6)
4. Mention risk factors for Foot problems in diabetic patients. Diabetic foot ulcer-pathophysiology, classification and treatment. (2+2+2+4)
5. Discuss applied biomechanics of Wrist joint. Describe the indications and contraindications of Total Wrist replacement? (5+5)
6. Classify Brooker's Heterotrophic Ossification? Describe The Aetiology, Risk Factors and Management of Heterotrophic Ossification?
7. What is Kienbock's disease? Write briefly its aetiology, diagnosis, clinical staging and management. (2+2+2+2+2)
8. What is Knee arthrodesis? Mention Indication and Discuss Total Knee replacement after Knee arthrodesis. (2+3+5)
9. Describe the recent trends in the diagnosis & management of multidrug resistant osteoarticular tuberculosis (5+5)
10. What is Shape memory alloy? Describe the various clinical applications of NITINOL in orthopaedics.