

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Diploma Examination - June/July 2020**

**Time : 3 Hrs**

**Max Marks : 100**

**DIPLOMA IN ORTHOPAEDICS (D.Ortho)**

**Paper-I**

**QP Code: D2181**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Mention FOUR thenar muscles and their nerve supply? Differentiate between Intrinsic plus Hand and Intrinsic minus Hand. [4+6]
2. Describe the origin, course, relations and innervation of Sciatic nerve. Discuss clinical features of sciatic nerve injury at various levels. [4+6]
3. Describe the structure and composition of bone matrix. Discuss the role of calcium binding protein. [5+5]
4. Define Osteitis deformans. Describe the pathophysiology of Paget's disease and its management. [2+3+5]
5. Describe the pathophysiology of Ewing's sarcoma. Discuss the Chemotherapy regimens used in Ewing's sarcoma with dosages. [4+6]
6. Enumerate the causes for Shoulder impingement. Discuss the various clinical tests Shoulder impingement syndrome? [4+6]
7. Describe the pathophysiology of neglected Tendo-Achilles rupture. Discuss the various clinical tests done for it. [5+5]
8. Describe the anatomy of Intervertebral disc. Discuss natural history of disc disease. [2+8]
9. Describe the pathophysiology of venous thromboembolic disease in patients with skeletal trauma. Discuss the pharmacological prophylaxis options with pros and cons of each modality. [5+5]
10. Describe the principles of Dynamic Compression Plate. Differentiate Locking Compression Plate from Dynamic Compression Plate. [4+6]

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**DIPLOMA IN ORTHOPAEDICS (D.Ortho)**

**Paper-II      QP Code: D2182**

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**LONG ESSAY**

**10 X 10 = 100**

1. Describe the mechanism of injury, clinical and radiological evaluation and management closed middle third clavicle fracture. [2+3+2+3]
2. Describe the etiology, clinical features and management of cross union of Both Bone Forearm Fractures? (2+4+4)
3. Discuss the anatomy of TFCC. Describe the clinical features, diagnosis and management of TFCC injuries? [4+2+2+2]
4. Describe the Management of Both Column fractures of Acetabulum? What is "SPUR" sign and its importance? [7+3]
5. Draw a diagram showing different approaches to the Hip. Describe briefly the approaches to the Hip. [7+3]
6. Describe the clinical features and management of Malunited Shaft of Tibia and Fibula? (4+6)
7. Describe Physeal injuries around Ankle joint. Discuss the mechanism of injury and management of Tillaux fracture in a 14 year old child. [4+3+3]
8. Describe FIVE Conus medullaris reflexes in Spinal cord injury patient in terms of location of lesion, stimulus, normal and abnormal response.[2+2+2+2+2]
9. What is Nursemaids Elbow? Mention the mechanism, clinical features and management of Nursemaids Elbow? [2+2+3+3]
10. Define Birth fractures? Describe the risk factors and clinical feature of Birth fractures. [4+3+3]

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**DIPLOMA IN ORTHOPAEDICS (D.Ortho)**

**Paper-III      QP Code: D2183**

*Your answers should be specific to the questions asked.*

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**LONG ESSAY**

**10 X 10 = 100**

1. What is Sprengel deformity? How do you classify it? Describe a surgical procedure used in management of this condition. [2+2+6]
2. Enumerate the elbow deformities in Post-Polio Residual Paralysis. Discuss its various surgical management options. [3+7]
3. What is Antibiotic PolyMethylMethAcrylate bead? Discuss its advantages and disadvantages in the management of Chronic Osteomyelitis. [2+4+4]
4. Describe etio-pathogenesis, physical examination, radiological examination and laboratory tests in musculo-skeletal neoplasms. [3+2+2+3]
5. Define amputation. How is the procedure different in children from adults? Describe Syme amputation? [2+6+2]
6. Describe the various clinical tests to assess Glenohumeral instability. Discuss the management protocol of glenohumeral instability (5+5)
7. What is Tribology? Discuss in detail about the recent advances in tribology of total hip arthroplasty. (2 + 8)
8. Discuss the Role of ultrasound in musculoskeletal diseases. Discuss briefly advances in Robotic orthopaedic surgery. (5+5)
9. What is Pain after Total hip arthroplasty, Enumerate the causes. Discuss in brief regarding management of pain after total hip arthroplasty. [5+5]
10. Discuss applied biomechanics of knee joint. What are indication and contraindication of total knee replacement? (5+5)