

SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

Post Graduate Degree Examination - November 2018

Time : 3 Hrs

Max Marks : 100

M.S ORTHOPAEDICS

Paper - I

Paper Code : RS-4301

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

10 X 10 = 100

1. Describe the FIVE zones of Flexor tendons of Hand with a neat labelled diagram. Mention the clinical significance and management of zone II injury. [5+2+3]
2. Describe the abductors of Hip joint and it's nerve supply. How will you clinically diagnose and manage Extra-capsular Fracture of proximal femur? [3+3+4]
3. Discuss the physiology of nerve conduction. Explain spinal reflex arc with a neat labelled diagram. [5+5]
4. Discuss the Bone Morphogenic Proteins. Describe the role of Bone Morphogenic Proteins in Fracture healing. [6+4]
5. Define Osteoporosis? What is Hormone Replacement Therapy? Describe the indications, mechanism of action, dosage and adverse effects of Raloxifene. [2+4+4]
6. Discuss two tests to differentiate High Radial nerve palsy from Low Radial nerve palsy. Describe the indications, benefits and draw backs for various tendon transfer procedures for Radius nerve palsy. [2+8]
7. Describe Trendelenberg gait and it's clinical importance. What is Trendelenberg sign. [4+3+3]
8. Describe the blood supply of spine . How will you diagnose cervical instability and discuss it's management. [3+3+4]
9. Describe the principle of Ultrasonography. List the uses of Ultrasonography in Orthopaedics. [4+6]
10. Enumerate the principles of Locking Compression Plate. Describe the indications and complications of Locking Compression Plate. [5+3+2]

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Paper - II

Paper Code : RS-4302

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LONG ESSAY

10 X 10 = 100

1. Describe the deforming forces on the osseous segments of Proximal Humerus? Discuss the mechanism of injury and clinical features of Proximal Humerus fractures ? [4+3+3]
2. Describe the indications, advantages and disadvantages of Darrach's procedure? (4+3+3)
3. Classify Carpal instability? Describe the clinical features and management of Perilunar instability? [4+2+4]
4. Describe the management of Acetabular fractures? Discuss "STOPPA" approach and it's merits. [6+4]
5. Classify Intra articular fracture of Distal end Femur? What is Hoffa's fracture and describe the techniques of management of it? [4+2+4]
6. What are the different surgical approaches to Knee? Describe Subvastus approach. [4+6]
7. Classify "Talus neck fractures" . Describe the radiological views for diagnosing them. Discuss the management of displaced Talar neck fracture. [5+2+3]
8. What were the various protocols of pharmacological intervention for Spinal Cord Injuries in the past? What is the current opinion on pharmacological intervention? Mention any TWO experimental pharmacological agents. [5+3+2]
9. What is Erb's point? Describe the clinical features of Erb's birth palsy. Discuss the signs of Pre-ganglionic avulsion injuries? [2+4+4]
10. 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]

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Paper - III

Paper Code : RS-4303

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LONG ESSAY

10 X 10 = 100

1. Describe the grades of Congenital hyperextension of knee? Discuss the technique of surgical correction of the above mentioned condition. [5+5]
2. Mention the natural sources of Fluoride. Discuss the absorption of Fluoride and daily requirements of Fluoride in normal individuals. Describe the management of Skeletal fluorosis. [2+2+2+4]
3. Describe a) Dillwyn-Evans osteotomy and b) Lambrinudi arthrodesis with respect to indications, technique and complications. [2+5+3]
4. What is Antibiotic PolyMethylMethAcrylate bead? Discuss its advantages and disadvantages in the management of Chronic Osteomyelitis. [2+4+4]
5. Discuss the radiographic classification, medical management and surgical management of primary Osteoarthritis of Hip joint. [3+3+4]
6. Briefly describe the etiology, clinical features, investigations, histopathology and treatment of malignant vascular tumors. [2+2+2+2+2]
7. What are the principles of Re-implanation? Who is an ideal candidate? [5+5]
8. What is physiotherapy? Describe various physiotherapy modalities used in chronic low back ache. [2+8]
9. Explain the role of electrodiagnostic studies in the management of Peripheral nerve injuries. What are factors that influence regeneration of nerve after neurorrhaphy? [5+5]
10. Describe indications, contraindications, procedure and complications of anterior spinal instrumentation and fusion. [2+2+3+3]

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Paper - IV

Paper Code : RS-4304

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LONG ESSAY

10 X 10 = 100

1. Discuss briefly the Recent advances in Arthroscopic ACL reconstruction with reference to creation of femoral tunnel and femoral fixation methods. (5+5)
2. Discuss about the recent advances in diagnosis of Osteoarticular Tuberculosis. Describe the rationale for using metallic implants in Osteoarticular Tuberculosis. (5+ 5)
3. What are Fragility Fractures? Describe the Problems encountered and Mention the use of various modalities in surgical management of Fragility Fractures.(2+4+4)
4. Mention the types of spinal cord lesions following fracture dislocation of C5-6 vertebrae and discuss clinical features, treatment and prognosis of each type of lesion in adult. (4+6)
5. Discuss the Indications & Techniques of Hip arthroscopy. Mention its complications. (3+4+3)
6. What are the hand deformities in Rheumatoid arthritis? Describe the pathological Anatomy and treatment of Boutannaire's deformity. (4+3+3)
7. Discuss Pathology, clinical features and management of diabetic Foot. (2+4+4)
8. What is Revision Total Hip Arthroplasty? Discuss indications, contraindications, preoperative planning and surgical approach? (2+2+2+2+2)
9. What is Total Knee replacement? Discuss indication, contraindication, preoperative planning and complications. (2+2+2+2+2)
10. Define Wrist arthrodesis? Mention it's indications and Discuss Total Wrist replacement after Wrist arthrodesis. (2+3+5)