Rajiv Gandhi University of Health Sciences, Karnataka

M.S. Degree Examination - 07-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

ORTHOPAEDICS
PAPER I (RS-2/RS-3)
Q.P. CODE: 8261

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Discuss the pathophysiology, clinical manifestations and Differential Diagnosis of Heterotopic Ossification.
2. Describe gate control theory of pain. Describe Transcutaneous Electrical Nerve Stimulation and its indications.
3. Describe the basic principle of PET scan and discuss its role in orthopedics.
4. Describe the presentation of tourniquet palsy and its causes. What precautions are taken to prevent it?
5. Discuss the etiology, pathology, diagnosis and management of Gas Gangrene of the Lower Extremity.
6. Describe the histological zones of growth plate. Discuss the anatomical changes which take place in Rickets and Slipped capital femoral epiphysis.
7. Describe the pathology, clinical features and principles of treatment of a neuropathic joint.
8. Tension Pneumothorax diagnosis and management.
9. What are Biochemical markers for bone formation and bone resorption? Discuss their role in management of osteoporosis.
10. Gene therapy in orthopaedics.

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M.S. Degree Examination - 09-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

ORTHOPAEDICS - PAPER II
(RS-2/RS-3)
Q.P. CODE: 8262

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe the treatment of acute flexor tendon injuries in various zones of hand.
2. Describe the classification of Thoraco-lumbar injuries and discuss the treatment of burst fracture of first lumbar vertebra.
3. Define External fixation. Classify the external fixators. Describe the advantage and disadvantages of external fixation.
4. Discuss the diagnosis and management of Anterior Cruciate Ligament (ACL) injury.
5. Describe the management of failed osteosynthesis of fracture neck of femur in a young adult.
6. Classify proximal humerus fracture. Discuss the management options for various types.
7. Recent advances in Fixation of osteoporotic fractures.
8. Elastic nailing principles and indications.
9. Describe Terrible triad of elbow. Outline clinical presentation and management.
10. Describe the blood supply of talus. Classify 'Talar neck fractures'. Discuss treatment and list complications.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.S. Degree Examination – 11-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

ORTHOPAEDICS - PAPER- III
(RS-2/RS-3)
Q. P. CODE: 8263

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

Answer All The Questions **10 x 10 = 100 Marks**

1. Define Pseudoarthrosis of tibia. Describe its pathogenesis, diagnosis, classification and management.
2. Discuss the clinical features and management of multiple myeloma.
3. Describe pathogenesis of medial compartment osteoarthritis. Discuss pros and cons of High Tibial Osteotomy versus Unicondylar replacement.
4. Describe the broad principles of tendon transfer. Enumerate the tendon transfer for high radial nerve palsy.
5. Pathogenesis of lumbar canal stenosis? What is the differentiating features between vascular and neurogenic claudication.
6. Draw a cross section of peripheral nerve and label the structures. Describe Sunderland's classification of nerve injury.
7. Describe the pathology, radiological features and management of osteomalacia.
8. Ceramic bearing surfaces in T.H.R – Merits and Demerits
9. Describe the Differential diagnosis of lytic lesion in upper end of humerus in a 10 year old child. Describe the management of Simple Bone cyst in children.
10. Bone scan in musculoskeletal disorder.

M.S. Degree Examination – 13-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

ORTHOPAEDICS - PAPER – IV
(RS-2/RS-3)
Q.P. CODE: 8264

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. MRI in Orthopedics
2. Posterior instrumentation of spine
3. Bioabsorbable implants
4. Bone densitometry
5. Recent trends in the management of rotate Cuff lesions in adults
6. Core decompression in Avascular necrosis of head of femur
7. Surgical site infections
8. Periprosthetic fracture of THR
9. Dual plating in distal femur fracture
10. Knee arthrodesis - Past and Present modalities

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Rajiv Gandhi University of Health Sciences, Karnataka

M.S. Degree Examination - 15-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

ORTHOPAEDICS
PAPER I (RS-2/RS-3)
Q.P. CODE: 8261

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer all the Questions **10 X 10 = 100 Marks**

1. Calcium Metabolism.
2. Infective Non- Union.
3. Write briefly on biocompatible metals in orthopaedics.
4. Below knee prosthesis.
5. Blood supply of long bone in child and adult.
6. Blood transfusion.
7. Triangular Fibro Cartilage Complex (TFCC).
8. Role of nuclear medicine in orthopaedics.
9. Osteoid Osteoma.
10. SLAP Lesion of Shoulder.

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M.S. Degree Examination - 17-Nov-2022

[Time: 3 Hours] [Max. Marks: 100]

ORTHOPAEDICS
PAPER II (RS-2/RS-3)
Q.P. CODE: 8262

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer all the Questions **10 X 10 = 100 Marks**

1. **Rotatory cuff injury** and its management.
2. Discuss classification and management of intracapsular fracture neck of femur.
3. Biological osteosynthesis.
4. Limited contact dynamic compression plate.
5. Reconstruction of anterior cruciate ligament of knee.
6. Bennet's fracture.
7. Lisfranc fracture.
8. Holston Lewis fracture.
9. Cubitus varus deformity.
10. Epiphyseal injuries in children.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.S. Degree Examination – 19-Nov-2022

Time: Three Hours **Max. Marks: 100 Marks**

ORTHOPAEDICS - PAPER- III
(RS-2/RS-3)
Q. P. CODE: 8263

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

Answer All The Questions **10 x 10 = 100 Marks**

1. Tens
2. Bankart's lesion
3. Rickets
4. Combined anteversion of Hip
5. Carpal tunnel
6. PES Planus
7. Diagnosis of Rheumatoid Arthritis
8. Classification of nerve injuries
9. Teriparatide
10. Bone cement

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M.S. Degree Examination – 21-Nov-2022

Time: Three Hours **Max. Marks: 100 Marks**

ORTHOPAEDICS - PAPER IV
(RS-2/RS-3)
Q.P. CODE: 8264

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe the potential spaces of hand. Discuss clinical features and treatment of deep space infection of hand.
2. Classify injuries of Acromio clavicular joint and describe management.
3. Biomechanics of knee in degenerative Arthropathy.
4. Reamer Irrigation Aspiration System.
5. Treatment options in Osteoclastoma of lower end **of** Radius.
6. Tibialization of fibula indication and procedure.
7. Sprengel shoulder clinical features and management.
8. Define Pes Cavus and its classification. Describe Coleman's Block test and its interpretation in Pes Cavus.
9. Pelvic osteotomies in development dysplasia of Hip.
10. Steenbeek brace.

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