

FINAL EXAM
JUNE 2012

NATIONAL BOARD OF EXAMINATIONS

ORTHOPAEDIC SURGERY

PAPER – I

ORTHO/JJ/12/27/I

Time: 3 hours
Max. Marks: 100

Attempt all questions in order.
Each question carries 10 marks.

1. Define MDR Tuberculosis. Discuss the clinical features, diagnosis and treatment of a case of MDR Tuberculosis of spine. 1+2+3+4
2. Discuss the pathophysiology, clinical manifestations and differential diagnosis of Heterotopic ossification. 3+3+4
3. Discuss treatment options of the focal cartilage defect over the medial femoral condyle in a 40 year old man. 10
4. Discuss the management of deep vein thrombosis in orthopedic patients. 10
5. Describe with illustrative diagrams the surgical exposure of radius at various levels. 10
6. Describe the surgical reconstruction in a case of one and half year old common peroneal nerve palsy. 10
7. Describe the principles of stabilization of foot. 10
8. Write in brief: 5+5
 - a) Ceramic bearing surfaces in arthroplasty.
 - b) Bone scan in musculoskeletal disorder.
9. Enumerate causes of claw hand deformity. Discuss its management in short. 3+7
10. Write brief notes on: 4+(3+3)
 - a) Alendronate induced fractures.
 - b) Diagnosis and treatment of osteomalacia

POSSESSION/USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL

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PAPER – II

Time: 3 hours
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ORTHO/J/12/27/II

Attempt all questions in order.
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1. Describe the treatment of acute flexor tendon injuries in various zones of hand. 10
2. Describe the etiopathology, diagnosis and treatment of Madelung's deformity. 3+3+4
3. Describe the clinical features, diagnosis and management tuberculosis of hip in children. 3+3+4
4. Discuss the differential diagnosis and investigation in an 8 year old child with persistent limp. 5+5
5. Classify congenital skeletal limb deficiencies. 10
6. Discuss in brief: 5+5
 - a) Sequelae of pyogenic arthritis of hip in infancy.
 - b) Intoeing gait.
7. Describe the etiopathology and management of slipped capito-femoral epiphysis (SCFE). 4+6
8. Write short notes on: 5+5
 - a) Floor reaction orthosis (FRO).
 - b) Interferential therapy.
9. Write brief notes on: 5+5
 - a) Role of orthosis in treatment of club foot.
 - b) Patellar tendon bearing prosthesis.
10. Write brief notes on: 5+5
 - a) Clinical and radiological features of scurvy.
 - b) Adolescent coxa vara.

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PAPER- III

Time: 3 hours
Max. Marks : 100

ORTHO/J/12/27/III

Attempt all questions in order.
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Write short note on:

1. Discuss the management of failed osteo-synthesis of fracture neck of femur in a young adult. 10
2. Discuss the management of diaphyseal gap nonunion with 5 cm bone loss in a young adult. 10
3. Describe the Tension Band Principle and how it is used in fracture care? 5+5
4. Describe the classification of thoracolumbar injuries and discuss the treatment of burst fracture of lumbar one vertebra (L1). 5+5
5. Describe the classification, clinical features and management of Lisfranc's fracture dislocation. 3+3+4
6. Describe the Sander's classification of calcaneal fractures and discuss the treatment of each type. 4+6
7. Describe the classification of distal humeral fractures in adults. Describe the surgical approaches used for internal fixation of these fractures. 4+6
8. Describe the blood supply of scaphoid. Discuss the treatment of nonunion of scaphoid fracture. 4+6
9. Describe the mechanism of injury of Radial Head Fracture. Discuss its classification and management. 3+3+4
10. Write short notes on: 5+5
 - a) External fixator in musculoskeletal injuries.
 - b) Antimicrobial prophylaxis to prevent surgical site infection.

ORTHOPAEDIC SURGERY

PAPER- IV

Time: 3 hours
Max. Marks : 100

ORTHO/J/12/27/IV

Attempt all questions in order.
Each question carries 10 marks.

1. Describe the structure of bone with illustrative diagram(s). 10
2. List the factors affecting the calcium metabolism. Describe the radiological features of rickets. 5+5
3. Write short note on nuclear medicine and its applications in orthopedics. 5+5
4. Discuss anatomical basis of thoracic outlet syndrome and its management. 5+5
5. Discuss the therapeutic potential of stem cells in musculoskeletal disorders. 10
6. Describe the musculoskeletal manifestations of sickle cell anemia. 10
7. Describe the clinical features, laboratory findings and management of Gout. 3+3+4
8. Describe gait cycle. List various types of gait with diagnostic features. 4+6
9. Describe the methods used for augmentation of fracture healing. 10
10. Describe the role of ultrasonography in musculoskeletal disorders. 10
