

ORTHOPAEDICS

PAPER –I

ORTHO/J/13/27/1

Time : 3 hours
Max. Marks : 100

IMPORTANT INSTRUCTIONS

- This question paper consists of 10 questions divided into Part 'A' and Part 'B', each part containing 5 questions.
- Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.
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- Attempt all questions in order.
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PART A

1. What is re-perfusion injury? How can we prevent it? Outline the principles of its management. 3+3+4
2. Describe bone healing. Discuss factors influencing bone healing. 5+5
3. Describe the clinical presentation of posterior dislocation of hip. How will you reduce it by Bigelow's method? Discuss causes which make reduction difficult. Enumerate complications of posterior dislocation of hip. 2+2+3+3
4. Write short notes on : 3+4+3
 - a. Plaster of Paris
 - b. Bone cement
 - c. Torus fracture
5. Describe the clinical features, radiology and treatment of non ossifying fibroma. 3+3+4

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PAPER –I

Please read carefully the important instructions mentioned on Page '1'

PART B

- | | |
|---|---------|
| 6. Classify nerve injuries. Write briefly about their prognosis. | 5+5 |
| 7. Discuss differentiating features between osteonecrosis and transient migratory osteoporosis. | 10 |
| 8. Describe the design of pelvic 'C' clamp. What are the indication of its application and method to fix an unstable fracture? | 3+(3+4) |
| 9. What is tuberculoma? Discuss the primary drug used to treat tuberculosis of spine. Enumerate complication of isoniazid, streptomycin and ethambutol. | 2+4+4 |
| 10. Write short notes on :
a. Vitamin D resistant rickets
b. Cast Syndrome | 5+5 |

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PAPER –II

ORTHO/J/13/27/II

Time : 3 hours
Max. Marks : 100

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PART A

1. What is Kienbock's disease? Write in brief etiology, diagnosis and management of this condition. 2+(1+2+5)
2. Describe the clinical features, investigations and management of acute osteomyelitis of upper end of tibia in a 10 years old child. 3+3+4
3. Discuss the patho-anatomy of congenital talipes equino varus. 10
4. What is Dupuytren's fracture dislocation? Discuss its management. 3+7
5. Write short notes on : 5+5
 - a. Mallet Finger
 - b. Blood supply of scaphoid bone

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PAPER –II

Please read carefully the important instructions mentioned on Page '1'

PART B

6. Define and classify epiphyseal injuries. Discuss the management of Salter's & Harris type IV epiphyseal injuries. (1+3)+6
7. Write short notes on : 5+5
 - a. Discoid meniscus
 - b. Congenital muscular torticollis
8. Discuss the principle of application of Milwaukee Brace. What are the clinical features of idiopathic Kyphoscoliosis? Enumerate the indications of surgical intervention. 2+3+5
9. What is Jaipur foot? Discuss the absolute and relative indications of amputation. 3+(3+4)
10. Describe the etiology, clinical features and treatment of Sudeck's atrophy. 2+3+5

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PAPER –III

ORTHO/J/13/27/III

Time : 3 hours

Max. Marks : 100

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PART A

1. Enumerate the portals for arthroscopy of knee joint. Describe the various arthroscopies, their accessories and indications of arthroscopy of knee joint 2+8
2. Classify pelvic fractures. Describe various radiological views for assessing pelvic injuries. How will you manage rotationally unstable pelvic injuries? 3+3+4
3. Describe Ilizarov fixator and corticotomy. How will you manage a case of defect non-union? 2+2+6
4. Write short notes on: 5+5
 - a. Myositis ossificans.
 - b. Habitual dislocation of patella.
5. What is "VAC"? How will you manage a case of compound fracture tibia having no neurovascular deficit? 3+7

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PAPER –III

Please read carefully the important instructions mentioned on Page '1'

PART B

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|-----|--|-------|
| 6. | What is damage control orthopedics? How will you manage a case of fracture shaft of femur with lung contusions in an adult? | 3+7 |
| 7. | Write short notes on:
a. Gram negative septicemia
b. LCP | 5+5 |
| 8. | Define osteoporosis. Describe various radiological investigations in a patient with osteoporosis. How will you manage of a case of fracture D ₁₂ in an adult? | 2+3+5 |
| 9. | Describe the clinical features of osteogenesis imperfecta. Discuss the types of osteogenesis imperfecta. How does it differ from Battered Baby syndrome? | 3+4+3 |
| 10. | Draw diagram(s) of brachial plexus. How will you clinically differentiate pre-ganglionic from post ganglionic lesions? | 7+3 |

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PAPER –IV

ORTHO/J/13/27/IV

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PART A

1. Describe the blood supply of femoral head. How does it differ in children and adults? 6+4
2. Describe the anatomy of Tibialis posterior tendon. What is posterior Tibial tendon dysfunction? Describe the management of such cases. 2+4+4
3. Describe the anatomy of parathyroid gland. Describe clinical features and radiological presentation of adenoma of parathyroid. What is hungry bone syndrome? 2+3+3+2
4. Discuss the etiopathogenesis, clinical features and management of alkaptonuria. 2+4+4
5. What are the indications of excision of head of radius? Describe the postero-lateral approach. 4+6

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PAPER –IV

Please read carefully the important instructions mentioned on Page '1'

PART B

6. Write short notes on: 5+5
a. BMP
b. Allografts
7. Describe the anatomy of central and lateral canals in the lumbar spine in relation to lumbar canal stenosis. How will you clinically differentiate central from lateral lumbar canal stenosis. Briefly describe the management. 4+3+3
8. Describe the gross physical features of synovial fluid. Discuss the characteristics features in various pathological conditions vis a vis microscopic and biochemical analysis. 3+7
9. Describe the mechanism of bacterial colonization and perpetuation in osteomyelitis after orthopedic implant surgery. How is the situation different in tubercular infection of musculoskeletal system? 7+3
10. Write short notes on: 5+5
a. Chronic recurrent multifocal osteomyelitis.
b. Combined angle of anteversion during total hip arthroplasty.
