MS[ Orthopaedics ]

BF/2015/11

## Basic Sciences as related Orthopaedics

[Paper-I]

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams

1. Bone graft substitutes. [10]

2. Principles of management of Gap-union. [10]

3. Management of osteoporosis. [10]

4. Principles & application of functional cast bracing. [10]

5. Concept of absolute stability & methods to achieve it. [10]

6. What is second hit phenomenon & principles of resuscitation of polytrauma patient. [10]

7. Pathophysiology of compartment syndrome. [10]

8. Locking Vs non-locking plating. [10]

9. Management of dead space in treatment of chronic osteomyelitis. [10]

10. Define and discuss mechanical and anatomical axis in lower limb. [10]

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## Principles & Practice of Orthopaedics diseases

## & Operative orthopaedics

**[Paper-II]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams

1. Discuss aetiology and management of painless limp in a 2 year old child. [10]

2. Discuss in brief surgical management of recurrent dislocation of patella. [10]

3. Describe the course of radial nerve and discuss its applied surgical significance. [10]

4. Discuss in detail about the role of MRI in T.B. spine. [10]

5. What are the common causes of stiffness of knee and discuss the role of arthroscopy in the management. [10]

6. Discuss in brief about Bone Allografts and their use in orthopaedic practice. [10]

7. Write in detail on Horner’s syndrome. [10]

8. What are the common indications for lower limb amputations and write in brief surgical technique of Syme’s amputation. [10]

9. Discuss briefly about the sequelae of septic arthritis of hip in an infant. [10]

10. Write a note on neurogenic claudication. [10]

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## Traumatology and its related aspects

**[Paper-III]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams

1. Discuss ‘Multiple organ dysfunction syndrome’ in trauma. [10]

2. Discuss the role of bone- Morphogenetic proteins in fracture healing. [10]

3. Discuss the principles of management of neglected fracture neck femur. [10]

4. What do you understand by complete & incomplete spinal cord injury? Describe incomplete spinal cord injury patterns. [10]

5. Classify acetabular fractures. What are the standard plain radiography for acetabular fractures & what information do we get from these? [10]

6. Describe the classification and management of supra-condylar humeral fracture in child. [10]

7. How do you classify acromio-clavicular dislocation in an adult. Describe its management guidelines. [10]

8. Write an essay in Lag-screws. [10]

9. Describe ‘Ganga Hospital Open Injury Score’. What are its advantages & limitations. [10]

10. Describe the classification & management strategies of Tibial pilon fractures in an adult. [10]

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## Recent Advances in Orthopaedics

**[Paper-IV]**

Time : 3 Hours M.M.: 100

Note: Attempt all questions.

All questions carry equal marks.

Illustrate your answer with suitable diagrams

1. Autogenous cartilage implantation (ACI). [10]

2. Surgical site infection- Current trends. [10]

3. Biomaterials. [10]

4. Immunotherpay in Orthopaedics. [10]

5. Role of 3D printing in complex Acetabular fractures. [10]

6. Recent advances in VTE prophylaxis in THR patients. [10]

7. Current trends in management of Tennis Elbow. [10]

8. Bone Morphogenetic Proteins. [10]

9. Bone Bank. [10]

10. Levels of Evidence. [10]

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