

Department of Orthopaedics
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Subharti Medical College, Meerut
Pre University Examination MS(Orth) 2013 batch

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PAPER -I

(Basic Sciences-as applicable to the subject of Orthopaedics)

31st May 2016

9am-12 noon

Max. Marks:100

Answer ALL Questions, draw suitable diagrams

- Q 1. Discuss the biomechanical forces working around a normal hip and how do they change in Trendelenberg gait. (25)
- Q 2. Discuss the strategies of osteotomies around the hip in developmental hip dysplasia (25)
- Q 3. Write in brief about:
a. Bone resorption
b. Radiological findings in CTEV
c. Normal articular cartilage (3x10=30)
- Q 4. Write short notes on: (4x05=20)
a. Sprengel's shoulder
b. Types of bone regenerate and their detection
c. Blood supply of scaphoid
d. Causes of delayed union



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PAPER -II

(Principles & Practice of Orthopaedics- *excluding Trauma*)

2nd June 2016

9am-12 noon

Max. Marks:100

Answer ALL Questions, draw suitable diagrams

- Q 1. Classify with suitable diagram tuberculosis of spine. Discuss the various factors which cause Pott's paraplegia (25)
- Q 2. Classify seronegative spondyloarthropathies. Describe the aetiology, clinical and radiological features of Ankylosing Spondylitis. (25)
- Q 3. Write in brief about: (3x10=30)
- a. Differential diagnosis of Pyogenic and Tubercular arthritis by synovial fluid examination
 - b. Traumatic arthritis
 - c. Painful wrist after fracture distal radius
- Q 4. Write short notes on: (4x05=20)
- a. Spondyloptosis
 - b. Pulled elbow
 - c. Tarsal tunnel syndrome
 - d. Diastematomyelia



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PAPER -III

(Trauma and Recent Advances)

9am-12 noon

Max. Marks:100

4th June 2016

Answer ALL Questions, draw suitable diagrams

- Q 1. What are the types of rotator cuff tears? Describe their clinical testing and their management. (25)
- Q 2. Classify the fractures of lower end femur. Describe the evolution of its operative management. (25)
- Q 3. Write in brief about: (3x10=30)
- a. Safe surgical hip dislocation
 - b. Functional cast bracing
 - c. Orthogonal plating
- Q 4. Write short notes on: (4x05=20)
- a. Atypical femoral shaft fracture
 - b. Sequential loosening
 - c. Floating shoulder
 - d. Lisfranc's injury



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PAPER -IV
(General Surgical Principles & Allied Specialities)

6th June, 2016

9am-12 noon

Max. Marks:100

Answer ALL Questions, draw suitable diagrams

- Q 1. Discuss the diagnosis and management principles in a patient of IDK with anteromedial instability of knee. (25)
- Q 2. Discuss biomechanics of hip in relation to planning total hip arthroplasty in a patient with primary osteoarthritis of hip. (25)
Discuss the role of computer navigation in such a patient.
- Q 3. Write in brief on: (5x10=50)
- (a) Immunomodulation in musculoskeletal tuberculosis.
 - (b) Subacromial impingement syndrome.
 - (c) Indications of stem cell use in Orthopaedics.
 - (d) Role of PET scan in Orthopaedics.
 - (e) Fasciocutaneous flaps for tibial wounds.

