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MANIPAL UNIVERSITY**DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2011****SUBJECT: PAPER I: BASIC SCIENCES**

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **All questions carry equal marks.**

1. Describe the structure of the growth plate. Discuss the changes that occur in the growth plate in rickets and at the site of the physal bar.

2. Describe the blood supply of the talus. Explain how avascular necrosis can occur following:
 - a) Fracture neck of talus
 - b) Complete sub-talar release by the Cincinnati incision.How would you treat a patient with post traumatic avascular necrosis of the body of the talus?

3. **Write short notes on:**

- 3A. Prophylactic antibiotic in elective orthopaedic surgery
- 3B. Imaging modalities in lumbar intervertebral disc prolapse
- 3C. Seronegative Spondyloarthropathies



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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2011

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **All questions carry equal marks.**

1. Describe the classification and diagnosis of shoulder dislocations. Discuss the management of recurrent anterior dislocation of the shoulder.
2. Classify spinal fractures at dorso-lumbar region. Discuss the management of a patient with such a fracture with incomplete neurological deficit.
3. **Write short notes on:**
 - 3A. Stress fracture
 - 3B. Classification of open fractures
 - 3C. Bennett's fracture



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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2011

SUBJECT: PAPER III: COLD ORTHOPAEDICS

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **All questions carry equal marks.**

1. Describe the clinical features of developmental dysplasia of the hip (DDH) in a 6 month old child. Discuss the imaging modalities and management of unilateral DDH in a 6 month old child.
2. Discuss the classifications of bone tumors. How will you evaluate and manage a 55 year old male with multiple skeletal metastasis?
3. **Write short notes on:**
 - 3A. Osteochondritis dissecans
 - 3B. Dupuytren's contracture
 - 3C. Hallux valgus

