

Reg. No.

MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2010

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer **ALL** questions.

✍ All questions carry equal marks.

1. Discuss the aetiology of Volkmann's ischemia. What are the clinical features of impending Volkmann's ischemia? Describe the management of supracondylar fracture of the humerus in a child aged 6 years presenting with impending compartment syndrome.
2. Discuss the anatomy and nutrition of articular cartilage. What are the clinical and radiological features of osteoarthritis of the knee? How do you manage a case of early osteoarthritis of the knee?
3. Write short notes on:
 - 3A. Anatomy of the rotator cuff
 - 3B. Normal gait
 - 3C. Blount's law

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MANIPAL UNIVERSITY
DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2010
SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✗ Answer ALL questions.

✗ All questions carry equal marks.

1. Discuss the blood supply of the head of femur in different age groups. How do you classify and manage fracture neck of femur in a child aged 8 years?
2. Describe the mechanism of injury and classification of dislocation of the talus. Discuss its management.
3. Write short notes on:
 - 3A. Bennett's fracture
 - 3B. Bone grafting
 - 3C. Epiphyseal injuries

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DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2010

SUBJECT: PAPER III: COLD ORTHOPAEDICS

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL questions.**
 - ✍ **All questions carry equal marks.**

1. Describe the aetiology and classification of cerebral palsy. Discuss the biomechanics of crouch gait in cerebral palsy. How will you manage an 8 year old cerebral palsy child with crouch?
2. Describe the clinical features of giant cell tumor of the proximal tibia. How would you assess such a patient? What is the management?
3. **Write short notes on:**
 - 3A. Intrinsic plus hand
 - 3B. Congenital vertical talus
 - 3C. Patellar tendon bearing prosthesis

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