

**MANIPAL UNIVERSITY****DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2009****SUBJECT: PAPER I: BASIC SCIENCES**

Wednesday, April 01, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Describe the anatomy of lumbar intervertebral disc. Outline the changes in the lumbar intervertebral disc related to disc prolapse. How will you manage a case of lumbar intervertebral disc prolapse in a 25 year old patient who presents with acute retention of urine?
2. Define pathological fractures. What are the different causes of pathological fracture? How would you manage a pathological fracture of proximal femur in a 60 year old patient?
3. Write short notes on:
  - 3A. Thomas test
  - 3B. Looser's zone
  - 3C. Arches of the foot



**MANIPAL UNIVERSITY****DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2009****SUBJECT: PAPER II: TRAUMATOLOGY**

Thursday, April 02, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Classify fracture neck of femur in children. Describe the management and complications of fracture neck of femur in a child aged 8 years.
2. Describe the anatomy of a peripheral nerve. Classify peripheral nerve injuries. How would you manage a case of fracture humerus with radial nerve palsy?
3. Write short notes on:
  - 3A. Crush syndrome.
  - 3B. Pronation external rotation injury of the ankle.
  - 3C. Stress shielding in compression fixation.



**MANIPAL UNIVERSITY****DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2009****SUBJECT: PAPER III: COLD ORTHOPAEDICS**

Friday, April 03, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Describe in detail how you would evaluate and manage a one month old infant with bilateral clubfoot.
2. Discuss the pathological changes seen in osteoarthritis of the knee. Describe the clinical and radiological features of primary osteoarthritis of the knee. Discuss the various treatment modalities of primary osteoarthritis of the knee with reference to stage of the disease.
3. Write short notes on:
  - 3A. de Quervain's disease.
  - 3B. Management of bilateral genu valgum in a child aged 5 years.
  - 3C. Giant cell variants.



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## MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2009

SUBJECT: PAPER I: BASIC SCIENCES

Monday, October 05, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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- ✍ Answer all questions.
  - ✍ All questions carry equal marks.

1. Describe renal osteodystrophy. Outline the treatment of rickets in a 5 year old child with lower limb deformities.
2. Describe the anatomy of intrinsic muscles of the hand. How will you manage an ulnar claw hand?
3. Write short notes on:
  - 3A. Polymerase chain reaction (PCR)
  - 3B. Ortolani's test
  - 3C. Neurogenic claudication



**MANIPAL UNIVERSITY****DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2009****SUBJECT: PAPER II: TRAUMATOLOGY**

Tuesday, October 06, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

✍ **All questions carry equal marks.**

1. What are the types of fracture pelvis? Outline the principles of management of pelvic fractures. What are the complications?
2. Describe fractures of the proximal humerus. Discuss their management.
3. Write short notes on:
  - 3A. Barton's fracture
  - 3B. Pulled elbow
  - 3C. Fish tail deformity of the humerus.



