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## MANIPAL UNIVERSITY

**DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2008**

**SUBJECT: PAPER I: BASIC SCIENCES**

Tuesday, April 01, 2008

Time: 3 Hrs.

Max. Marks: 100

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

1. Describe the histology of the growing end of a long bone. Describe the clinical features and management of osteogenesis imperfecta.
  
2. Describe the course and distribution of the common peroneal nerve. What are the clinical features of damage to this nerve? Briefly discuss the management of paralysis of the common peroneal nerve.
  
3. Write short notes on:
  - 3A. Floor reaction orthosis.
  - 3B. Compartmental syndrome.
  - 3C. Jaipur foot.

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## MANIPAL UNIVERSITY

**DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2008**

**SUBJECT: PAPER II: TRAUMATOLOGY**

Wednesday, April 02, 2008

Time: 3 Hrs.

Max. Marks: 100

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

1. What are the mechanisms of different types of fracture patella? Describe the clinical and radiological features of fracture patella. Outline the management of any one type of fracture patella.
  
2. Classify supracondylar fractures of the humerus. Discuss management of a Gartland III supracondylar fracture without a palpable radial pulse.
  
3. Write short notes on:
  - 3A. ARDS
  - 3B. Jefferson's fracture.
  - 3C. Nerve conduction studies.

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## MANIPAL UNIVERSITY

**DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2008**

**SUBJECT: PAPER III: COLD ORTHOPAEDICS**

Thursday, April 03, 2008

Time: 3 Hrs.

Max. Marks: 100

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**Answer all questions. All questions carry equal marks.**

1. Describe the pathogenesis and sequelae of Tom Smith's arthritis. Discuss the management of a case of acute septic arthritis in an infant.
  
2. Describe the etiopathology and radiological features of rheumatoid arthritis. Discuss the pathology and clinical presentation of hand deformities in rheumatoid arthritis. Outline the conservative line of management of rheumatoid arthritis.
  
3. Write short notes on:
  - 3A. Cold abscess.
  - 3B. Dupuytren's contracture.
  - 3C. Cementless total hip.

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## MANIPAL UNIVERSITY

**DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2008**

**SUBJECT: PAPER I: BASIC SCIENCES**

Monday, October 06, 2008

Time: 3 Hrs.

Max. Marks: 100

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

1. Describe the anatomy of the intrinsic muscles of the hand. How will you manage an ulnar claw hand?
  
2. Describe the blood supply of a long bone and mention its relevance in haematogenous osteomyelitis. Discuss the differential diagnosis of a painful swelling arising from the upper metaphyseal area of tibia in a child of 8 years. Discuss various principles of management of chronic osteomyelitis of the upper end of tibia.
  
3. Write short notes on:
  - 3A. Spina ventosa.
  - 3B. Strength duration curve.
  - 3C. Syme's amputation.

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## MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2008

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, October 07, 2008

Time: 3 Hrs.

Max. Marks: 100

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✍ Answer ALL questions. All questions carry equal marks.

1. Describe different fractures of the proximal humerus. How will you manage them?
2. Classify acetabular fractures. Outline a treatment algorithm for a patient with an acetabular fracture. Enumerate the complications of acetabular fractures.
3. Write short notes on:
  - 3A. Functional cast bracing.
  - 3B. Barton's fracture.
  - 3C. Pilon fracture.

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## MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2008

SUBJECT: PAPER III: COLD ORTHOPAEDICS

Thursday, October 09, 2008

Time: 3 Hrs.

Max. Marks: 100

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**Answer all questions. All questions carry equal marks.**

1. What do you mean by anteversion of the femoral neck? How do you determine clinically and radiologically the degree of anteversion of the femoral neck? Discuss its importance in the management of development dysplasia of the hip in a child aged 5 years.
  
2. Describe the treatment options for managing a patient with cervical spondylosis. How would the choice of treatment vary depending on whether the patient presents with each of the following ways:
  - 2A. Chronic neck pain.
  - 2B. Acute brachialgia with radiculopathy.
  - 2C. Vertebro-basilar insufficiency.
  - 2D. Myelopathy.
  
3. Write short notes on:
  - 3A. Congenital trigger thumb.
  - 3B. Meralgia paraesthetica.
  - 3C. Osteochondritis dessicans.