Reg. No.										

MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2007

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 02, 2007

Time: 3 Hrs. Max. Marks: 100

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

1. Describe the histology of articular cartilage. Mention the clinical features of primary osteoarthritis of the knee joint. Discuss the principles of various osteotomies performed for osteoarthritis of the knee.

2. Discuss the anatomy of the arches of the foot. Classify flat foot and discuss its management in a two year old child.

3. Write short notes on:

3A. The anatomy and blood supply of talus.

3B. Compound palmar ganglion.

3C. PTS prosthesis.

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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2007

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 03, 2007

Time: 3 Hrs. Max. Marks: 100

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

1. Discuss the surgical anatomy of the medial meniscus. Outline the principles of management of meniscal injuries. What are the relative merits and demerits of arthroscopic meniscectomy?

2. What are the main centres of ossification around the elbow? Discuss their importance in injuries around the elbow in children. How would you manage a case of lateral condylar fracture of the humerus in a child?

3. Write short notes on:

3A. Essex Lopresti fracture.

3B. Chance's fracture.

3C. JESS.

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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2007

SUBJECT: PAPER III: COLD ORTHOPAEDICS

Wednesday, April 04, 2007

Time: 3 Hrs. Max. Marks: 100

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

1. Discuss the aetiology, pathology, clinical features, diagnosis and management of acute hematogenous osteomyelitis.

2. Describe the aetiopathogenesis of Perthes' disease. Discuss the recent trends in the management of Perthes' disease.

3. Write short notes on:

3A. Triple arthrodesis.

3B. Osteoid osteoma.

3C. Painful arc syndrome.

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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2007

SUBJECT: PAPER I: BASIC SCIENCES

Monday, October 01, 2007

Time: 3 Hrs. Max. Marks: 100

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

1. Discuss the pathophysiology of compartmental syndrome. Discuss the clinical features and management of a child with impending Volkman's ischaemia following a supracondylar fracture of the humerus.

2. Describe the normal course and branching of the sciatic nerve. Discuss briefly its importance in one of the commonly used approaches of the hip joint.

3. Write short notes on:

3A. Brown tumour.

3B. Arthrolysis.

3C. Structure of the growth plate.

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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2007

SUBJECT: PAPER II: TRAUMATOLOGY

Wednesday, October 03, 2007

Time: 3 Hrs. Max. Marks: 100

Answer all questions. All questions carry equal marks.

1. How does a fracture heal? Discuss different factors which influence fracture healing. Discuss the advantages and limitations of interlocking nails.

2. Describe the blood supply of the talus. Classify fractures of the talus and discuss the management of fracture neck of the talus. What are the complications of fracture neck of talus?

3. Write short notes on:

3A. Anterior cruciate ligament injury.

3B. Monteggia fracture dislocation.

3C. Hangman's fracture.

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MANIPAL UNIVERSITY

DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – OCTOBER 2007

SUBJECT: PAPER III: COLD ORTHOPAEDICS

Thursday, October 04, 2007

Time: 3 Hrs. Max. Marks: 100

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

1. Describe the pathological anatomy of congenital dislocation of hip joint (CDH). Describe clinical features and management of CDH in a child aged 3 years.

2. How will you classify spondylolisthesis? Describe the various radiological features and management of spondylolisthesis.

3. Write short notes on:

3A. Giant cell tumour of the upper end of tibia.

3B. Loose body knee.

3C. Keinbock's disease.