Reg. No.										

MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER I: BASIC SCIENCES

Tuesday, April 01, 2008

Time: 3 Hours Max. Marks: 100

Answer all questions.

1. Discuss synovial fluid analysis and its characteristics in various disorders affecting the knee, and compare it with the normal.

(30 marks)

2. Discuss the principles of osteotomies around the hip. Discuss the indication and surgical planning of any one of them.

(30 marks)

3. Write short notes on:

(10×4 = 40 marks)

3A. Bohler Braun frame.

3B. Intoeing gait.

3C. Milwaukee brace.

3D. Electrodiagnostic tests to confirm entrapment neuropathy.

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER II: TRAUMATOLOGY

Wednesday, April 02, 2008

Time: 3 Hours | Max. Marks: 100

Answer all questions.

1. 40 year old male presents with a fracture neck of femur of 4 weeks duration. Discuss the principles of management.

(30 marks)

2. Describe different types of carpal instabilities. How will you evaluate and manage a patient aged 30 years with 2 month old unreduced perilunate dislocation.

(30 marks)

3. Write short notes on:

(10×4 = 40 marks)

3A. Essex Lopresti fracture.

3B. Frankel's grading of neurological deficit.

3C. Seat belt injury.

3D. Plastic bowing of the forearm.

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Thursday, April 03, 2008

Time: 3 Hours Max. Marks: 100

Answer all questions.

1. Define triple arthrodesis. What are the indications of triple arthrodesis? Discuss its role in post polio residual paralysis involving the ankle and foot.

(30 marks)

2. A 25 year old man presents with chronic osteomyelitis of the tibia. How will you proceed to manage such a case?

(30 marks)

3. Write short notes on:

(10×4 = 40 marks)

3A. Congenital dislocation of the knee.

3B. Phasic tendon transfer.

3C. Cobb's angle.

3D. Barlow's test.

Reg. No.										

MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER IV: RECENT ADVANCES

Friday, April 04, 2008

Time: 3 Hours Max. Marks: 100

Answer all questions.

1. What are the different methods of fixation of a joint prosthesis to the skeleton? Discuss their advantages and limitations. What are the radiological features of asceptic loosening of a prosthesis?

(30 marks)

2. Discuss the current concepts in the management of osteoporosis with specific reference to the prevention of osteoporotic fractures in the elderly.

(30 marks)

3. Write short notes on:

(10×4 = 40 marks)

3A. LCDCP.

3B. Chinese flap.

3C. Ligamentotaxis.

3D. Biphosphonates in treatment of osteogenesis imperfecta.

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2008

SUBJECT: PAPER I: BASIC SCIENCES

Monday, October 06, 2008

Time: 3 Hours | Max. Marks: 100

✍ **Answer all questions.**

1. Describe the blood supply to the head of the femur. Discuss etiopathogenesis, clinical features, diagnosis, management and prognostic factors in Perthes' disease.

(30 marks)

2. Describe the structure of the growth plate. Explain the factors responsible for fusion of the growth plate at skeletal maturity. Describe briefly, procedures that can modulate growth plate function as methods to correct angular deformities and limb length inequality.

(30 marks)

3. Write short notes on:

3A. Heterotopic ossification.

3B. Disease modifying drugs in rheumatoid arthritis.

3C. Giant cell variants.

3D. Tourniquet.

(10×4 = 40 marks)

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2008

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, October 07, 2008

Time: 3 Hours Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the pathoanatomy and management of fracture of the surgical neck of humerus.

(30 marks)

2. Describe the anatomy of the ankle joint in relation to the injuries around the ankle joint. How do you classify talar dislocations? Briefly discuss their management.

(30 marks)

3. Write short notes on:

3A. Bankart's lesion.

3B. JESS.

3C. Bennett's fracture.

3D. Mangled Extremity Score.

(10×4 = 40 marks)

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2008

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Thursday, October 09, 2008

Time: 3 Hours Max. Marks: 100

✍ **Answer all questions.**

1. What is a giant cell? What are the different types of giant cells you know of? Enumerate the tumours which are giant cell variants. How would you manage a case of giant cell tumour arising from the lower end of the radius?

(30 marks)

2. Discuss the aetiology, clinical manifestations, complications and the treatment of slipped capital femoral epiphysis.

(30 marks)

3. Write short notes on:

3A. Scottish Terrier sign.

3B. Pollicization.

3C. Mehta's angle.

3D. Sherman Coleman's block test.

(10×4 = 40 marks)

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2008

SUBJECT: PAPER IV: RECENT ADVANCES

Friday, October 10, 2008

Time: 3 Hours | Max. Marks: 100

Answer all questions.

1. Describe the anatomy and structure of the lumbar intervertebral disc. Outline the various changes in the lumbar intervertebral disc related to age, trauma and infection. Discuss the modern trends in the management of lumbar intervertebral disc prolapse.

(30 marks)

2. Discuss the recent trends in the management of rheumatoid arthritis.

(30 marks)

3. Write short notes on:

3A. TENS.

3B. Ultrasound in DDH.

3C. Myoelectric prosthesis.

3D. Hip arthroscopy.

(10×4 = 40 marks)