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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I: BASIC SCIENCES

Monday, July 03, 2006

Time: 3 Hours

Max. Marks: 100

✍ Answer all questions.

1. Describe the anatomy and the biomechanics of the anterior cruciate ligament. Discuss the merits and demerits of the autograft substitutes in ACL reconstruction.
(30 marks)

2. Discuss the rationale and actions of the various drugs used in rheumatoid arthritis.
(30 marks)

3. Write short notes on:
 - 3A. MRSA (Methicillin Resistant Staphylococcus Aureus).
 - 3B. Blood supply of the talus.
 - 3C. Microscopic picture in osteosarcoma.
 - 3D. Factor replacement in haemophilia.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, July 04, 2006

Time: 3 Hours

Max. Marks: 100

Answer all questions.

1. Discuss the management of a patient aged 34 years with a comminuted fracture of the mid shaft of the humerus with radial nerve palsy.

(30 marks)

2. How will you evaluate and manage a patient aged 40 years with infective gap nonunion of a supracondylar fracture of the femur?

(30 marks)

3. Write short notes on:

3A. Bauman's angle in supracondylar fracture of the humerus.

3B. Mallet finger.

3C. Fracture disease.

3D. Jefferson's fracture.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, July 05, 2006

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the pathogenesis of deformities in a rheumatoid hand. How would you manage a patient with a rheumatoid hand?

(30 marks)

2. What are the causes of neurological complications in spinal tuberculosis? How would you manage a case of tuberculosis of the dorsal spine with paraplegia?

(30 marks)

3. Write short notes on:
 - 3A. Volkman's ischaemia.
 - 3B. Chondromalacia patella.
 - 3C. Pelvic tear-drop.
 - 3D. Jack's test.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, July 06, 2006

Time: 3 Hours

Max. Marks: 100

☞ **Answer all questions.**

1. Describe the applied anatomy of the medical meniscus. Discuss the relative merits and demerits of arthroscopic meniscectomy over conventional meniscectomy.

(30 marks)

2. What is endoscopic surgery? Discuss the role of endoscopic surgery in Orthopaedics.

(30 marks)

3. Write short notes on:

3A. Primary union of bone.

3B. Limb salvage in tumours.

3C. Radial tunnel syndrome.

3D. Telescoping rod.

(10×4 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER I: BASIC SCIENCES

Monday, December 04, 2006

Time: 3 Hours

Max. Marks: 100

Answer all questions.

1. Discuss calcium metabolism. How will you investigate a patient with osteoporosis?
(30 marks)

2. How do you classify bed sores? Discuss the pathogenesis and management of bed sores in paraplegia.
(30 marks)

3. Write short notes on:
 - 3A. Plantar Fascia
 - 3B. Madras foot
 - 3C. Ochronosis
 - 3D. Compound palmar ganglion.

(10×4 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, December 05, 2006

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the care of a polytraumatised patient with special reference to trauma scoring systems.

(30 marks)

2. Classify fractures of the lower end of the radius. How will you manage a case of comminuted Colles' fracture in a 40 year old man?

(30 marks)

3. Write short notes on:

3A. Floating knee injury.

3B. Hangman's fracture.

3C. Intracompartmental pressure monitoring.

3D. Greenstick fracture reduction.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, December 06, 2006

Time: 3 Hours

Max. Marks: 100

 **Answer all questions.**

1. Discuss the classification of bone tumors and discuss the etiopathology of chondro-sarcoma.
(30 marks)

2. Discuss the etiopathology and management of spondylolisthesis in 40 year old female.
(30 marks)

3. Write short notes on:
 - 3A. Madelung's deformity.
 - 3B. Kienbock's disease.
 - 3C. Madura foot.
 - 3D. Blount's disease.

(10×4 = 40 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, December 07, 2006

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Describe two commonly used approaches for arthroplasties of the hip. Discuss their advantages and limitations.

(30 marks)

2. Discuss the management of Type III open tibial fractures with emphasis on recent concepts.

(30 marks)

3. Write short notes on:

3A. Technetium -99m.

3B. Trauma scoring systems.

3C. Ceramics in Orthopaedics.

3D. Autologous bone marrow injection.

(10×4 = 40 marks)

