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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 02, 2007

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Enumerate the metaphyses which are wholly or partially intracapsular. Discuss the pathology of osteomyelitis and describe the possible complications, which can occur in bones with intracapsular metaphysis.
(30 marks)

2. Describe the abductor mechanism of the hip. Discuss the affections of the gluteus medius.
(30 marks)

3. Write short notes on:
 - 3A. Compound palmar ganglion.
 - 3B. Madelung's deformity.
 - 3C. TENS.
 - 3D. Prophylactic antibiotics in Orthopaedics.

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 03, 2007

Time: 3 Hours

Max. Marks: 100

Answer all questions.

1. Classify fractures around the elbow in children. Discuss the management of fracture of the medial epicondyle of the humerus.

(30 marks)

2. Describe the applied anatomy of the hip in relation to dislocation of the hip. Discuss the classification and its relevance in the management of the posterior dislocation of the hip.

(30 marks)

3. Write short notes on:

3A. Monteggia variants.

3B. Crutch palsy.

3C. Fracture disease.

3D. Smith's fracture.

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, April 04, 2007

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the role of osteotomies around the knee for osteoarthritis of the knee.
(30 marks)

2. A woman aged 50 years has a partial collapse of body of L3 vertebra. How will you proceed to investigate and manage the patient?
(30 marks)

3. Write short notes on:
 - 3A. Thomas splint.
 - 3B. Sprengel's shoulder.
 - 3C. Ollier's disease.
 - 3D. Trendelenberg test.

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, April 05, 2007

Time: 3 Hours

Max. Marks: 100

✍ **Answer all questions.**

1. Discuss the functional anatomy of the anterior cruciate ligament. What are the clinical features of anterior cruciate ligament injury? What are the recent trends in the management of an old anterior cruciate ligament injury?

(30 marks)

2. Discuss the indications, advantages and disadvantages of closed interlocking nails over conventional intramedullary nailing. Briefly describe the surgical techniques and complications of closed interlocking nailing.

(30 marks)

3. Write short notes on:

3A. ARDS (Adult Respiratory Distress Syndrome).

3B. Biodegradable implants.

3C. Bone cement.

3D. Telescoping rod.

(10×4 = 40 marks)



MANIPAL UNIVERSITY**MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2007****SUBJECT: PAPER I: BASIC SCIENCES**

Monday, October 01, 2007

Time: 3 Hours

Max. Marks: 100

✍ **Answer all the questions.**

1. How does a fracture heal? Discuss different factors which influence fracture healing. What is the role of distraction osteogenesis in the healing of a fracture?
(30 marks)

2. Describe the anatomy of flexor tendons and their sheaths in the fingers. How will you manage flexor tendon injury in zone 2?
(30 marks)

3. Write short notes on:
 - 3A. Arthroscopy of shoulder.
 - 3B. Triple arthrodesis.
 - 3C. Sclerosing osteomyelitis.
 - 3D. Evoked sensory potentials in spinal cord monitoring.(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2007

SUBJECT: PAPER II: TRAUMATOLOGY

Wednesday, October 03, 2007

Time: 3 Hours

Max. Marks: 100

✍ Answer all the questions.

1. How do you classify fractures of the pelvis? How will you manage an unstable fracture of the pelvis?

(30 marks)

2. Discuss the management of ipsilateral fracture shaft of femur with posterior dislocation of the hip.

(30 marks)

3. Write short notes on:

3A. Rotatory instability of the atlanto-axial joint.

3B. Sliding plate devices.

3C. Management of post traumatic reflex sympathetic dystrophy.

3D. Principles of functional cast bracing.

(10×4 = 40 marks)



Reg. No.

MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2007

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Thursday, October 04, 2007

Time: 3 Hours

Max. Marks: 100

Answer all the questions.

1. Discuss the etiopathogenesis of DDH. Discuss the role of ultrasound in the management of DDH in infants.

(30 marks)

2. Mention the aetiology, clinical manifestation, differential diagnosis and management of Osteosarcoma.

(30 marks)

3. Write short notes on:

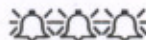
3A. Stress fracture.

3B. Adhesive capsulitis.

3C. DEXA scan.

3D. Anterior drawer sign in the knee.

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2007

SUBJECT: PAPER IV: RECENT ADVANCES

Friday, October 05, 2007

Time: 3 Hours

Max. Marks: 100

✍ **Answer all the questions.**

1. Discuss the current concepts in the aetiopathogenesis and management of Perthes' disease.
(30 marks)

2. Current concepts in the management of a PCL (Posterior Cruciate Ligament) deficient knee.
(30 marks)

3. Write short notes on:
 - 3A. Meniscal repair.
 - 3B. Biodegradable implants.
 - 3C. Thromboprophylaxis in lower limb arthroplasty surgery.
 - 3D. MRSA (Methicillin Resistant Staphylococcus aureus).

(10×4 = 40 marks)

