

Reg. No.

# MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Discuss the anatomy of the ligaments of the ankle joint. How will you evaluate the integrity of the distal tibio-fibular joint? Discuss the management of failure of this syndesmosis.

(30 marks)

2. Define cervical rib. What are the different types of cervical ribs? Discuss their pathology in relation to the clinical features. How would you treat a case of symptomatic cervical rib?

(30 marks)

3. **Write short notes on:**

3A. Paget's disease

3B. Hyperparathyroidism

3C. PTS prosthesis

3D. Pulmonary function tests in scoliosis

(10×4 = 40 marks)



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## MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ **Answer ALL the questions.**

1. Describe the blood supply of scaphoid. Classify scaphoid fractures. Discuss the management of fracture scaphoid when presenting early and with complications.

(30 marks)

2. Enumerate the causes of irreducible posterior dislocation of the hip. Discuss the management of a three month old unreduced posterior dislocation of the hip in a young adult.

(30 marks)

3. **Write short notes on:**

3A. Bankart's lesion

3B. Phantom limb

3C. Anterolateral instability of the knee

3D. Traumatic dislocation of the radial head in children

(10×4 = 40 marks)



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## MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ Answer ALL the questions.

1. How will you investigate and manage a child aged 8 years presenting with fever, pain and swelling over the tibia?

(30 marks)

2. Discuss the causes of pain around the shoulder with partial restriction of movements. How will you manage a case of chronic rotator cuff injury?

(30 marks)

3. Write short notes on:

3A. Osteochondritis dissecans

3B. Tarsal coalition

3C. Tennis elbow

3D. Risser's sign

(10×4 = 40 marks)



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## MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, April 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍ Answer ALL the questions.**

1. Describe the anatomy and biomechanics of the spine. Discuss their relevance in the principle of internal fixation of the spinal column.

(30 marks)

2. Classify bone tumors. Discuss the diagnosis and recent trends in the management of osteosarcoma of the lower end of femur.

(30 marks)

3. **Write short notes on:**

3A. Electro-diagnostic tests to diagnose entrapment neuropathy

3B. Ceramics in orthopaedics

3C. Lasers in orthopaedics

3D. Thromboprophylaxis in joint replacements

(10×4 = 40 marks)

