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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER I: BASIC SCIENCES

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

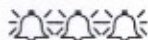
✍ Answer ALL the questions.

1. Discuss the microscopic structure of articular cartilage and the changes seen in osteoarthritis of a weight bearing joint.
(30 marks)

2. Describe the different drugs useful in rheumatoid arthritis and their mechanism of action.
(30 marks)

3. Write short notes on:
 - 3A. Giant cell tumor of tendon sheath.
 - 3B. Osteoid osteoma.
 - 3C. Myositis ossificans.
 - 3D. Anterior spinal hyperextension brace.
(10×4 = 40 marks)

HEALTH SCIENCES LIBRARY



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

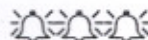
✍ **Answer ALL the questions.**

1. Discuss the patho-anatomy and current concepts in the management of fractures at the lower end of the radius.
(30 marks)

2. Classify fractures of the tibial condyles. Discuss their management.
(30 marks)

3. Write short notes on:
 - 3A. Interlocking nails.
 - 3B. Pedicular screw fixation.
 - 3C. Limited Contact Dynamic Compression Plate (LCDCP).
 - 3D. Stove in chest.

(10×4 = 40 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Describe the natural history of intervertebral disc degeneration. Discuss the management of a prolapsed lumbar intervertebral disc at L4-L5 level.

(30 marks)

2. Discuss the differential diagnosis of limp in a 10 year old child. How will you manage a case of persistent limp due to limb length discrepancy?

(30 marks)

3. Write short notes on:

- 3A. Carpal tunnel syndrome.
3B. Rigid flat foot.
3C. Surgical management of wrist drop.
3D. Congenital dislocation of the knee.

(10×4 = 40 marks)

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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER IV: RECENT ADVANCES

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss the role of radio isotopes in orthopaedics.
(30 marks)

2. What do you mean by distraction osteogenesis? Discuss different methods of distraction osteogenesis. Enumerate the indications for distraction osteogenesis.
(30 marks)

3. Write short notes on:
 - 3A. Dead arm syndrome.
 - 3B. Ultra high density polyethylene.
 - 3C. Bone graft substitutes.
 - 3D. Nosocomial infections.

(10×4 = 40 marks)

