MARCH 2007

[KQ 208] Sub. Code : 2214

M.S. DEGREE EXAMINATION.

Branch II — Orthopaedic Surgery

Paper IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND REHABILITATION

(For candidates admitted from 2004–2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions.

1. Describe patho-anatomy, clinical features and management of developmental dysplasia of hip. (20)

2. Describe the anatomy of elbow joint. Discuss in detail the indications, procedure and complication of elbow replacement surgery. (15)

3. Classify bone tumour and discuss in detail the management of giant cell tumour of lower end of Femur. (15)

II. Short notes. (6 × 5 = 30)

(a) Telescoping Medullary rod

(b) Illizarov fixator in infected non union

(c) Intervertebral disc replacement surgery

(d) Paralytic hip dislocation

(e) Rhizotomy

(f) Vertebroplasty.

SEPTEMBER 2007

[KR 213] **Sub. Code : 2220**

M.S. DEGREE EXAMINATION.

Branch II — Orthopaedic Surgery

Paper IV — RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND REHABILITATION

(Candidates admitted upto 2003-2004)

and

(For candidates admitted from 2004–2005 onwards)

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

I. Essay :

1. Describe the mechanism of injury, classification and management of Atlanto-axial injury in a 28 year old manual labourer. (20)

2. "Contralateral slip". Discuss etiopathogenesis, clinical features and management. (15)

3. "Osteosynthesis". Describe ways to achieve osteosynthesis in fracture management with special mention to recent advances. (15)

II. Short Notes : (6 × 5 = 30)

1. Complex regional pain syndrome

2. Bone substitutes

3. Interference screw

4. Ponseti method of treatment for club foot

5. Neglected tendo-achillies rupture

6. Limb salvage in primary bone tumor.

[KS 213] **Sub. Code : 2220**

M.S. DEGREE EXAMINATION.

Branch II — Orthopaedic Surgery

Paper IV — RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND TRAUMATOLOGY

(For candidates admitted from 2004–2005 onwards)

Q.P. Code : 222220

Time : Three hours **Maximum : 100 marks**

I. Essay questions : (2 × 20 = 40)

1. Describe the classification and management of rotator cuff injuries of the shoulder with special reference to recent advances.

2. Describe the biomechanics, pathological anatomy, clinical features and management of tendon injuries of the hand.

II. Short questions : (10 × 6 = 60)

(1) ASR (Articular Surface Replacement)

(2) Fracture head of Radius

(3) Causes of neural deficit in pott's paraplegia.

(4) Pedicle screw and its insertion in L_5 vertebra.

(5) Foot drop.

(6) PLIF (Posterior Lumbar Interbody Fusion)

(7) Management of sudeck's osteodystrophy of hand.

(8) Non–union of fractures.

(9) Bioabsorable implants.

(10) Biomechanics of normal hip joint and its role in total hip replacement..

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September 2008

[KT 213] **Sub. Code: 2220**

M.S. DEGREE EXAMINATION

Branch II – Orthopaedic Surgery

Paper IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND TRAUMATOLOGY

(For candidates admitted from 2004-2005 onwards)

Q.P. Code : 222220

Time : Three hours **Maximum : 100 marks**

Draw suitable diagram wherever necessary.
Answer ALL questions.

I. Essay questions : **(2 X 20 = 40)**

1. Classify meniscal injuries. Discuss the current concept of management of meniscal tear..

2. Describe various instabilities of knee joint. How would you manage a chronic anterior cruciate ligament injury in a cricket players, highlighting the recent advances.

II. Write short notes on : **(10 X 6 = 60)**

1. Myosites ossificans.
2. Positron emission tomography.
3. Gene therapy in orthopaedics
4. Recent advances in management of fractures lower radius in an adult.
5. Current concepts in bone grafts.
6. Proximal femoral nail.
7. Management of recurrent dislocation patellae.
8. Battered child syndrome.
9. Modern diagnostic methods in diagnoses of osteoporosis.
10. Drug resistant tuberculosis.

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March 2009

[KU 213] **Sub. Code: 2220**

M.S. DEGREE EXAMINATION

Branch II – ORTHOPAEDIC SURGERY

(For candidates admitted from 2004-2005 to 2007-08)

Paper IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND TRAUMATOLOGY

Q.P. Code : 222220

Time : Three hours **Maximum : 100 marks**

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions : **(2 x 20 = 40)**

1. Elaborate various conditions sharing sclerosis (increase in density) of body of vertebra in plain radiograph and discuss differential diagnosis of the same.

2. Briefly outline the applied biomechanics of hip. Discuss the current concept of management of secondary osteoarthritis due to fracture of acetabulum in young adult.

II. Write short notes on : **(10 x 6 = 60)**

1. Elastic stable intramedullary nailing.
2. Polyglycolic acid.
3. Madial patello femoral ligament.
4. Charcot arthropathy.
5. Femoral antiversion.
6. Deltoid fibrosis.
7. Osteochondral defects.
8. Gene therapy in orthopaedics.
9. Bearing surfaces.
10. Free vascularised bone graft.

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September 2009

[KV 213] **Sub. Code: 2220**

M.S. DEGREE EXAMINATION

Branch II – ORTHOPAEDIC SURGERY

(For candidates admitted from 2004-2005 to 2007-08)

Paper IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY AND TRAUMATOLOGY

Q.P. Code : 222220

Time : Three hours **Maximum : 100 marks**

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions : **(2 x 20 = 40)**

1. Classify proximal humeral fractures. Discuss the assessment and management of these fractures in a 60 years old patient.

2. Classify meniscal injuries of the knee. Discuss the etiology, assessment and arthroscopic management of meniscal injuries.

II. Write short notes on : **(10 x 6 = 60)**

1. Custom made prosthesis.
2. Bone banking.
3. Articular cartilage replacement.
4. Immuno modulators in rheumatid disease.
5. HIV and orthopaedics.
6. Minimally invasive plate osteo synthesis.
7. Skin flaps in open tibia fractures.
8. Functional cast bracing.
9. Endoscopic disc surgery.
10. Limb reconstruction system.

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