

March 2010

[KW 209]

Sub. Code: 2237

**M.S. DEGREE EXAMINATION**

**Branch II – ORTHOPAEDIC SURGERY**

**Paper II – (for candidates admitted from 2004-05 to 2007-08)**

**Part II –Paper I –(for candidates admitted from 2008-09 onwards)**

**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P. Code : 22237*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Classify calcaneal fractures. How will you investigate and manage comminuted. Intra articular fracture calcaneum in a young adult?
2. Classify epiphyseal injuries. Enumerate the complications of epiphyseal injuries and discuss their diagnosis and management.

**II. Write short notes on :**

**(10 x 6 = 60)**

1. Tension band wiring.
2. Proximal femoral nail.
3. Trans cutaneous electrical nerve stimulation. (TENS)
4. Kaplan's dislocation.
5. Minimally invasive plate osteosynthesis (MIPO).
6. Crush syndrome.
7. Mid carpal instability.
8. Central fracture dislocation of hip.
9. Lag screw principle.
10. Skeletal traction.

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September 2010

[KX 209]

Sub. Code: 2237

**M.S. DEGREE EXAMINATION**

**Branch II – Orthopaedic Surgery**

**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

**Paper II – (for candidates admitted from 2004-05 to 2007-08)  
Part II – Paper I – (for candidates admitted from 2008-09 onwards)**

*Q.P. Code : 222237*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 X 20 = 40)**

1. Describe clinical features, assessment and management of distal femoral fractures in an osteoporotic patient.
2. Classify fracture neck of femur in children. Discuss its management and complications.

**II. Write short notes on :**

**(10 X 6 = 60)**

1. Subluxatio erecta.
2. Limited contact dynamic compression plate.
3. Fracture of lateral humeral condyle.
4. Titanium elastic nail.
5. Crush syndrome.
6. Acromio clavicular dislocation.
7. Fracture neck of talus.
8. Medial meniscal injuries.
9. Fat embolism.
10. Green stick fracture.

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May 2011

[KY 209]

Sub. Code: 2237

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

TRAUMATOLOGY INCLUDING RECENT ADVANCES

*Q.P. Code : 222237*

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks  
(Max.) (Max.) (Max.)

- |   |    |    |    |
|---|----|----|----|
| 1. Describe etiopathology, classification, clinical features and management of Tibial condyle fracture. | 11 | 35 | 15 |
| 2. Classify Calcaneal fractures. Discuss its management and complications.                              | 11 | 35 | 15 |

II. Write notes on :

- |   |   |    |   |
|---|---|----|---|
| 1. Anterior shoulder dislocation.                 | 4 | 10 | 7 |
| 2. Cable – Plate System.                          | 4 | 10 | 7 |
| 3. Monteggia fracture dislocation.                | 4 | 10 | 7 |
| 4. Volar Barton's fracture.                       | 4 | 10 | 7 |
| 5. Buttress Plate.                                | 4 | 10 | 7 |
| 6. Medoff sliding plate.                          | 4 | 10 | 7 |
| 7. SLAC (Scapho Lunate Advanced Collapse).        | 4 | 10 | 7 |
| 8. DISI (Dorsal Intercalary Segment Instability). | 4 | 10 | 7 |
| 9. Lumbar disc replacement.                       | 4 | 10 | 7 |
| 10. TLIF.   | 4 | 10 | 7 |

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October 2011

[KZ 209]

Sub. Code: 2237

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P. Code : 222237*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Classify supracondylar fractures of humerus in children. Discuss the complications of supracondylar fracture and management of cubitus varus deformity.	11	35	15
2. Classify lower cervical spine fractures. Discuss the management of unilateral fracture dislocation of C5 over C6 with incomplete deficit.	11	35	15

**II. Write notes on :**

1. Intercarpal instability.	4	10	7
2. Locked compression plate.	4	10	7
3. Fractures at the upper end of humerus.	4	10	7
4. Rotator cuff injury.	4	10	7
5. Tension band principle.	4	10	7
6. Pilon fracture.	4	10	7
7. Physeal injuries.	4	10	7
8. Operative complications of acetabular fractures.	4	10	7
9. Classify posterior dislocation of hip.	4	10	7
10. Complications of posterior dislocations of hip.	4	10	7

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April 2012

[LA 209]

Sub. Code: 2237

**M.S. DEGREE EXAMINATION  
BRANCH II – ORTHOPAEDIC SURGERY**

**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P. Code : 222237*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

**Pages Time Marks  
(Max.) (Max.) (Max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Classify Trochanteric fracture and discuss the management of unstable trochanteric fracture. | 16 | 35 | 15 |
| 2. Classification of fracture neck of Humerus and its management.                               | 16 | 35 | 15 |

**II. Write notes on :**

- |  |   |    |   |
|--|---|----|---|
| 1. Describe the etiology, clinical features and management of Posterior dislocation shoulder.  | 4 | 10 | 7 |
| 2. Write about the classification of Nerve injury and add a note on the management of Neurotmesis.   | 4 | 10 | 7 |
| 3. Classify Fracture talus and discuss the management.   | 4 | 10 | 7 |
| 4. Discuss the management of a patient with Trimalleolar Fracture.   | 4 | 10 | 7 |
| 5. Describe the anatomy of Posterior cruciate ligament and mention the clinical features and management of Posterior cruciate ligament injury. | 4 | 10 | 7 |
| 6. Discuss the Classification fracture head of femur and Management.   | 4 | 10 | 7 |
| 7. Write a note on Whiplash injury.  | 4 | 10 | 7 |
| 8. Write short notes on Volar intercalated segmental instability.  | 4 | 10 | 7 |
| 9. Discuss clinical features diagnosis and management of Compartment syndrome.   | 4 | 10 | 7 |
| 10. Neglected Monteggia lesion.  | 4 | 10 | 7 |

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[LB 209]

OCTOBER 2012

Sub. Code: 2237

**M.S. DEGREE EXAMINATION  
BRANCH II – ORTHOPAEDIC SURGERY  
TRAUMATOLOGY INCLUDING RECENT ADVANCES  
Q.P. Code : 222237**

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

**Pages Time Marks  
(max.) (max.) (max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Describe the mechanism, clinical features and management of traumatic dislocations of hip in adults. | 16 | 35 | 15 |
| 2. Write on mechanism, classification and management of proximal humerus fractures.                     | 16 | 35 | 15 |

**II. Write notes on**

- |  |   |    |   |
|--|---|----|---|
| 1. Principles of biological plating.   | 4 | 10 | 7 |
| 2. Etiology and management of algodystrophy.                                       | 4 | 10 | 7 |
| 3. Clinical signs and investigations of fat embolism.                              | 4 | 10 | 7 |
| 4. Medial condyle fracture of humerus- Classification and Post operative protocol. | 4 | 10 | 7 |
| 5. Displacements in Smith fracture and its surgical management                     | 4 | 10 | 7 |
| 6. Classification and radiological evaluation of Jefferson fractures               | 4 | 10 | 7 |
| 7. Mangled Extremity Severity Score.   | 4 | 10 | 7 |
| 8. Proximal Femoral Nail- Indication and complications.                            | 4 | 10 | 7 |
| 9. Principles of Distraction osteogenesis.   | 4 | 10 | 7 |
| 10. Ogden's classification of epiphyseal injury.                                   | 4 | 10 | 7 |

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[LC 209]

APRIL 2013

Sub. Code: 2237

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P. Code : 22237*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss in detail about the management of an intraarticular distal femur fracture in a 60 year old female patient.
2. Classify dorsolumbar spine injuries.  
Discuss the management of D12 vertebral fracture with paraparesis.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Shaft of femur fracture management in a 6 year old child
2. Hawkins sign
3. Posterior cruciate ligament avulsion management
4. Fracture odontoid
5. White sides technique
6. Bone marrow concentrate injection in non union
7. AC joint dislocation
8. Modular external fixator
9. Surgical approach for distal radius volar plate
10. Parts and functions of a cortical screw

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[LD 209]

OCTOBER 2013

Sub. Code: 2237

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P. Code : 222237*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the surgical priorities for life saving surgeries in a polytraumatized patient? Classify acetabulum fractures. How will you manage a case of both column acetabulum fracture in an adult?
2. Describe the mechanism of injury, applied vascular anatomy, clinical assessment and classification of proximal humerus fracture. How will you treat a three part and four part fracture of proximal humerus without glenohumeral dislocation in a 55 year old gentleman?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Morel-Lavallee lesion.
2. Biological osteosynthesis.
3. Herbert screws.
4. Delta plane configuration external fixator in compound fracture both bones leg.
5. Sliding hip screw versus nail for proximal femur fractures.
6. Patient specific jigs in arthroplasty.
7. Lunate dislocation.
8. Fractures of the olecranon.
9. Odontoid fractures.
10. Meniscal allograft transplantation.

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(LE 209)

APRIL 2014

Sub. Code:2237

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**TRAUMATOLOGY INCLUDING RECENT ADVANCES**  
*Q.P.Code: 222237*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. Write in detail on the principles, indications, advantage and disadvantages of osteotomies around hip.
2. Classify posterior dislocation of hip. Describe the management of Thompson Epstein type III and IV in a young adult.

**II. Write notes on:**

**(10X7=70)**

1. Missed cervical injuries
2. Radiological fractures of pediatric supra condylar fracture humerus
3. Hybrid fixators
4. Pollar screw
5. Bio absorbable fixation
6. Elbow arthrolysis
7. Trimalleolar fracture
8. Kocher's approach for radial head
9. MPFL tear
10. Lisfranc joint strain

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(LF 209)

OCTOBER 2014

Sub. Code:2237

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER II - TRAUMATOLOGY INCLUDING RECENT ADVANCES**

*Q.P.Code: 222237*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Classify fracture Tibial plateau and discuss the management of Type V (Schatzker) fracture.
2. Classify fracture neck of femur and discuss the various methods of management of fracture neck of femur in 45 year old man

**II. Write notes on:**

**(10 x 7 = 70)**

1. Bennet's fracture.
2. Fracture coronoid.
3. Reverse shoulder arthroplasty.
4. Surgical approaches to elbow.
5. Femoral head fracture.
6. Acromio clavicular dislocation.
7. Lisfranc Fracture.
8. Classify Floating knee injury and write a note on management.
9. Management of supracondylar fracture with pulseless hand.
10. Pubic symphysis diastasis.

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