

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 : 222237*

**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<br/>(Max.)</b> | <b>Time<br/>(Max.)</b> | <b>Marks<br/>(Max.)</b> |
|---|-------------------------|------------------------|-------------------------|
| 1. Classify supracondylar fractures of humerus in children.<br>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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[LG 209]

APRIL 2015

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**

**Answer ALL questions**

**I. Elaborate on:** **(2 x 15 = 30)**

1. Classify compound injuries. Discuss the management of compound injury of middle third of Tibia.
2. Classification, management and complications of distal humerus fracture.

**II. Write notes on:** **(10 x 7 = 70)**

1. Compartment syndrome.
2. Initial evaluation and management of a poly trauma patient.
3. Fracture neck of talus and management.
4. Hangman's fracture.
5. Classification and imaging of pelvic fracture.
6. Classify Monteggia fracture and discuss the management of neglected Monteggia fracture in children.
7. Prevention and management of post traumatic stiff knee.
8. Titanium elastic nail.
9. Bone graft substitutes.
10. Non union of fracture scaphoid.

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[LH 209]

OCTOBER 2015

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**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the principles of intraarticular fracture management?  
How will you manage a case of AO Type C distal tibial fracture?
2. Give an outline of Pelvic fracture classification.  
How will you manage a case of open pelvic fracture of type C in a young adult male?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Sideswipe injuries of elbow joint.
2. CRUSH syndrome.
3. Fibular graft in fracture management.
4. Gas gangrene.
5. Functional cast bracing in humeral fractures.
6. Tourniquet palsy.
7. Abduction external rotational injuries of ankle joint.
8. Proximal femoral nail.
9. Principles of external fixation.
10. Stem cell therapy in orthopaedics.

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**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. Examination investigation and management of Internal derangement of knee.
2. Classification and management of Tibial pilon fracture.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Principles of management of recurrent dislocation of shoulder.
2. Hoffa's fracture.
3. Management of fracture neck of humerus.
4. Damage control orthopaedics.
5. Dorsal Intercalated segmental instability (DISI).
6. Complications of paediatric supracondylar fracture.
7. Sacral Fracture.
8. Current concept in management of clavicle fracture.
9. Classification of Dorso lumbar spine injury and add a note on its management.
10. Calcaneal fracture.

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(LJ 209)

OCTOBER 2016

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 fractures of proximal humerus. Discuss the technique, advantages and disadvantages of various treatment modalities.
2. Compartment syndrome - Pathophysiology, clinical features, diagnosis, complications and management.

**II. Write notes on:** **(10 x 7 = 70)**

1. Primary v/s Secondary fracture healing.
2. Ganga score.
3. Spinal shock.
4. Draw brachial plexus. Differentiate pre-ganglionic and post-ganglionic lesion.
5. Delta frame in leg.
6. Bennet's fracture.
7. Post-traumatic stiff knee.
8. DRUJ injuries.
9. Valgus hip oteotomy in trauma.
10. Vacuum-Assisted Closure (VAC).

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**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. What are the causes for pathological fracture?  
How will you evaluate and manage a case of fracture of distal femur around a moth eaten pattern of lytic lesion in a young adult?
2. Describe the aetio pathogenesis diagnosis of avascular necrosis of femoral head.  
How will you manage a case of AVN of Grade I MRI changes and a case of AVN with secondary arthritis?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Phemister bone grafting.
2. Whiplash injury.
3. Preservation and transport of severed limb for reimplantation.
4. Methods of fixation of patellar fracture.
5. Fracture disease.
6. Hypovolaemic shock.
7. TENS Implant.
8. Lisfranc dislocation.
9. Principles of biological fixation.
10. Absorbable implants.

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**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. Describe the structure of physis. Classify physeal injury. Outline the treatment of physeal injury and enumerate the complications.
2. Describe the classification, clinical features and management of Lisfranc's fracture dislocation and complications.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Torus fracture.
2. Pseudo fractures.
3. Unhappy triad of O'donoghue.
4. Ligamentotaxis.
5. Mangled extremity severity score.
6. PTB Cast.
7. Bioabsorbable implants.
8. Herbert screw.
9. Crush syndrome.
10. Floating knee.

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**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. Describe briefly the etiology, clinical features, diagnosis, investigations and treatment of painful elbow following injury around elbow.
2. Classify fractures of distal radius. Describe clinical and radiological features, management and complications of distal radial fractures in a young adult.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Reamed Vs Unreamed intramedullary nailing.
2. Motor March.
3. Fracture Disease.
4. Principles of Tendon Transfer.
5. Bryant's Traction.
6. Respiratory Distress Syndrome.
7. Wrist drop.
8. Symes amputation.
9. Minimal invasive plate osteosynthesis.
10. Locking compression plate.

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**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. What are the principles of management of compound fractures?  
How will you manage Gr III B compound AO TYPE 3 B fracture of proximal tibia in a young adult?
2. Describe the classification of dorsolumbar spinal injuries.  
How will you manage a case of 1 hr old traumatic paraplegia involving L1 Burst type of fracture?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Indications for nerve suturing and nerve grafting.
2. Compartment syndrome.
3. Avulsion fractures of Pelvis and Hip.
4. Rotator cuff injuries.
5. Gas gangrene.
6. Treatment of intra-articular fracture of distal Radius in 62yrs old patient.
7. Evaluation of syndesmotoc injuries of Ankle joint.
8. Shoulder-Hand syndrome.
9. Fixation methods in periprosthetic fracture of femur in a patient with THR implant.
10. Precontured plates for elbow injuries.

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(LO 209)

MAY 2019

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. Biology of fracture healing. Discuss about abnormal fracture healing.
2. A 70 years old female sustains a fall on outstretched hand. What are all the bone injuries possible in this? Discuss about proximal humerus injuries, various classification and treatment modalities.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Tension band principle.
2. Stress fracture.
3. Bone scan.
4. Rationale of prophylactic antibiotics in open fractures.
5. HILL- SACHS Lesion.
6. Unreduced acromio-clavicular joint dislocation - management.
7. Compartment syndrome.
8. Pulled Elbow.
9. Ulnar paradox.
10. Floating shoulder.

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(LP 209)

OCTOBER 2019

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 fractures of Acetabulum. Outline treatment of specific fracture patterns.
2. Classify Shoulder dislocations. Management of traumatic anterior shoulder dislocation.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Cross section of a peripheral nerve. Sunderland's classification.
2. Spinal cord syndromes.
3. Hemorrhagic shock – Pathophysiology and management.
4. Hawkin's sign.
5. Odontoid fracture.
6. Radial head excision-Indication and technique.
7. Complex Regional Pain Syndrome (CRPS).
8. Hybrid fixator.
9. Birth fractures.
10. Degenerative rupture of Tendo-achilles.

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[LQ 209]

AUGUST 2020  
(MAY 2020 SESSION)

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 calcaneal fractures. How will you investigate and manage comminuted intraarticular fracture calcaneum in a young adult?
2. Classify lower cervical spine fractures. Discuss the management of unilateral fracture dislocation of C5 over C6 with incomplete deficit

**II. Write notes on:**

**(10 x 7 = 70)**

1. Intercarpal instability
2. Posterior dislocation shoulder
3. Principles of biological plating
4. Modular external fixator
5. Morel-Lavallee lesion
6. Trimalleolar fracture
7. Terrible triad of elbow
8. Radial head fracture
9. Monteggia fracture dislocation
10. Classification of compound fractures

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[LS 209]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)  
M.S. DEGREE EXAMINATION

Sub. Code: 2237

**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. What are the principles of intra-articular fracture management? How will you manage a case of AO Type C distal femur fracture?
2. Classify fractures of proximal humerus. Discuss the techniques, advantages and disadvantages of various treatment modalities.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Proximal femoral nail
2. Galeazi fracture dislocation
3. Lisfranc injury
4. Dupuytren's fracture
5. Gas gangrene
6. Tennis elbow
7. Trans cutaneous electrical nerve stimulation (TENS)
8. Titanium elastic nail
9. Chance fracture
10. Biodegradable implants

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[MS 0721]

JULY 2021

Sub. Code: 2237

(MAY 2021 SESSION)

**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 intra capsular fracture neck of femur investigation and treatment in various age groups.
2. Computer navigation in TKR.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Periprosthetic fracture.
2. Hoffa's fracture management and classification.
3. Lauge hansen classification.
4. Radiological features of posterior dislocation of shoulder.
5. Lumbar disc prosthesis.
6. Crush syndrome.
7. Gallows traction.
8. Tillax fracture.
9. Functional cast bracing.
10. Bone transplant.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MD 1121]**

NOVEMBER 2021  
(OCTOBER 2021 SESSION)  
**M.S. DEGREE EXAMINATION**

**Sub. Code: 2237**

**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 the fractures of Tibial condyle . Describe management and complications of Type IV Schatzkar fracture.
2. Classify hip dislocations and femoral head fractures. Describe different reduction maneuvers for posterior as well as anterior dislocation.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Lambotte's principles of surgical treatment of fractures.
2. ASIF Screw.
3. Buttressing principle.
4. Pathological fractures and their management.
5. Describe Hohl and Moore classification of proximal tibia.
6. Acromio Clavicular joint dislocation-classification and modern management.
7. Dynamic Hip Screw.
8. Terrible triad injury – Management.
9. Tibial spine fracture in children.
10. Lag screw principle.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MS 0522]**

**MAY 2022**

**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. Discuss the classification, mechanism of injury, clinical findings, evaluation and management of Acromioclavicular Joint Dislocation.
2. Discuss the initial management, classification, radiographic evaluation and management of Pelvic Fractures.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Central cord syndrome.
2. Supracondylar humeral fractures in children.
3. Retrograde femoral nailing.
4. Essex-Lopresti fracture-dislocation.
5. Posterolateral bone grafting for tibial fractures.
6. Talar neck fractures.
7. Bennett fracture.
8. Femoral head fractures.
9. Reamer, irrigator, aspirator (RIA) System.
10. Thoracolumbar Injury Severity Score.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MS 1022]**

**OCTOBER 2022**

**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 distal Tibia Fractures and discuss about the various methods of the management.
2. Biology of fracture healing. Discuss about abnormal fracture healing.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Carpal Instability.
2. Terrible triad of elbow.
3. Odontoid Fracture.
4. Trimalleolar Fracture.
5. LCP Principles.
6. Tibial spine avulsion fractures.
7. Fractures Neck of scapula.
8. Pathologic Fracture management.
9. Acromioclavicular joint dislocation.
10. Sacroiliac Joint Disruption.

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[MS 0723]**

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**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. Discuss the classification, mechanism of injury, clinical findings, investigation and treatment of Calcaneal fracture.
2. Explain the Principle behind Functional Cast Bracing. How is it used in the treatment of Tibial Shaft Fracture? What are its Merits and Demerits?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Damage Control Orthopaedics.
2. Weight Relieving Orthosis.
3. Mechanical Methods of assessing fracture healing of a long bone.
4. Which type of implant fixation is called the ‘‘Non-union generator’’ of a long bone, why?
5. Draw a diagram of Far-cortical locking with labelling and mention how it differs from regular locking.
6. Takakura-Tanaka Classification.
7. Growth Factors in Non-Union Treatment.
8. Osteonal union.
9. Gurd’s Criteria of fat embolism.
10. Mangled Extremity Severity Score (MESS Score).

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**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

[MS 1223]

**DECEMBER 2023  
(OCTOBER 2023 EXAM SESSION)**

**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. Classification of sacral fractures and management of sacral fractures with cauda equina impairment.
2. Describe the importance of menisci in knee, various tears of menisci, mechanism of injury diagnosis and management of lateral meniscus tear.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Chance fracture.
2. Management of traumatic paraplegia.
3. Hip arthroscopy and Labrum Repair.
4. Lauge-Hansen classification.
5. Distal radial intra articular fractures.
6. Classifications of distal femoral physical fractures.
7. Osteochondral knee injuries.
8. Triplane fracture ankle.
9. Cast index.
10. Virtual planning for Acetabular fracture fixation.

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