

Roll no.

P-2712

M.S. EXAMINATION, APRIL, 2008

M.S. - ORTHOPAEDICS

(Paper - I)

(Basic Sciences and Applied Orthopaedics)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Describe aetiology, epidemiology, clinical staging, investigation and treatment of infections in Total Joint Replacement. 20 marks
 2. Discuss in brief : 10 marks each
 - (a) Palmar spaces of hand
 - (b) Congenital tibial kyphosis
 - (c) Triple arthrodesis
 - (d) Chemotherapy in bone sarcomas
 3. Discuss in brief : 10 marks each
 - (a) Vertical talus
 - (b) Biomechanics of hip joint
 - (c) Gait
 - (d) Renal rickets
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Roll no.

P-2713

M.S. EXAMINATION, APRIL, 2008

M.S. - ORTHOPAEDICS

(Paper - II)

(Traumatology and Orthopaedic Diseases)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Discuss etiology, pathogenesis, clinical presentation and treatment of Congenital talipes equinovarus. 30 marks
 2. Write short notes on :
 - (a) Complications of fractures 10 marks
 - (b) SCURVY 10 marks
 - (c) Giant cell tumour 10 marks
 3. Discuss the followings :
 - (a) Recurrent dislocation patella 10 marks
 - (b) Frozen shoulder 10 marks
 - (c) Limb salvage surgery in tumours 10 marks
 - (d) Locking compression plate 10 marks
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Roll no.

P-2714

M.S. EXAMINATION, APRIL, 2008

M.S. - ORTHOPAEDICS

(Paper - III)

(Recent Advances in Orthopaedics)

Time : 3 hours

Maximum Marks – 100

Note : Attempt all questions.

1. Describe the various types of total hip replacement.
Discuss the principles of 'Primary Total Hip Replacement'. 30 marks
 2. Write notes on : 10 marks each
 - (a) Kyphoplasty
 - (b) PHILOS
 - (c) Bone cages
 - (d) Laminar Air flow
 3. Write short notes on : 10 marks each
 - (a) Jaipur foot
 - (b) Biological fixation
 - (c) DEXA
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M. S. EXAMINATION, April/May, 2009

ORTHOPAEDICS

Paper First

(Basic Sciences)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss anatomy of rotator cuff of shoulder joint. How would you manage a case of rotator cuff injury ? 25
2. Write short notes on the following : 5 each
 - (i) Blood supply of talus
 - (ii) Compound Palmer Ganglion
 - (iii) Thoracic outlet syndrome
3. Describe the Etiopathogenesis of Osteoarthritis. Discuss management of Osteoarthritis of knee. 25
4. Write short notes on the following : 5 each
 - (i) Osteoporotic fractures
 - (ii) Spastic flat foot
 - (iii) Tendon transfer in Radial Nerve Palsy
5. Discuss calcium metabolism. 20

20

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M. S. EXAMINATION, April/May 2009

ORTHOPAEDICS

Paper Second

(Traumatology)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

1. Discuss the classification, diagnosis and principles of management of fractures of the proximal humerus. 20
2. Discuss the principles of management of pilon fractures of the tibia. 20
3. Discuss the etiopathogenesis and principles of management of ARDS. 20
4. Write notes on the following : 20
 - (a) Whiplash injury
 - (b) Hoffa's fracture
5. Write notes on the following : 20
 - (a) Greenstick fracture
 - (b) Ankle sprain
 - (c) Gamekeeper's Thumb

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M. S. EXAMINATION, April/May 2009

ORTHOPAEDICS

Paper Third

(Diseases in Orthopaedics)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions. Draw diagrams where applicable.
Be brief and to the point.

1. Describe : 15
 - (a) Clinical features
 - (b) Radiological features
 - (c) Managementof a case of Giant cell tumor of upper end Tibia.
2. Describe the aetiopathogenesis, classification, investigations and treatment of Avascular Necrosis of Femoral head. 15
3. Write short notes on the following : 70
 - (i) Ankylosing Spondylitis
 - (ii) Pott's paraplegia
 - (iii) Bone densitometries in Osteoporosis
 - (iv) Haemophilic Arthropathies

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- (v) Deformities in Rheumatoid Arthritis
- (vi) Role of Fluroscopic/CT Guided FNAC in Orthopaedics
- (vii) Triple Arthrodesis
- (viii) Osteogenesis imperfecta
- (ix) Tendon transfers in poliomyelitis—general principles
- (x) Sequestrum

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M. S. EXAMINATION, April/May, 2009

ORTHOPAEDICS

Paper Fourth

(Recent Advances)

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt all questions.

Write short notes on the following :

10 each

1. Autologous blood transfusion.
2. Bone substitutes.
3. MOM surface replacement.
4. Biodegradable implants.
5. MDR in tuberculosis.
6. Grafts and techniques used in ACL reconstruction.
7. Ponseti technique.
8. Stem cell therapy in orthopaedics.
9. Damage control in trauma.
10. Differences between LISS and MIPPO.

Lib

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POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS ORTHOPAEDICS
(PAPER ONE)**

BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe calcium metabolism in detail and its application in rickets and osteomalacia. (20)
- Q. 2. Discuss aetiopathogenesis, classification and treatment options for a vascular necrosis of femoral head. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Extensor medionism of finger
 - b. Stages of repair of fracture
 - c. Fat embolism
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Prerequisite test for tendon transfer
 - b. Bone substitutes
 - c. Wolf's Law
 - d. Bone transportation
 - e. Bio films in infected implants

X

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

MS ORTHOPAEDICS

(PAPER TWO)

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe the systemic inflammatory response and the principle of damage control in orthopaedics in a multiple injured patient. (20)
- Q. 2. Describe the classification and management of proximal humeral fractures in young adult male. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Treatment of nonunion of diaphyseal fractures
 - b. Treatment of odontoid fractures
 - c. Classification of fractures of acetabulum
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Flail chest
 - b. Burst fracture of thoracic 12 vertebra
 - c. Fracture distal end of radius
 - d. Stress, Strain and modulus of elasticity in relation to metallic implants
 - e. Treatment of fracture talus

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Describe the aetiopathogenesis of chronic osteomyelitis. Discuss its management. (20)
- Q. 2. Describe the various types of peripheral nerve injuries. Discuss their management. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Pelvic support osteotomies (20)
 - b. Triple arthrodesis (3 x 10 = 30)
 - c. Claw Hand
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Giant cell tumour
 - b. CTEV Shoes (5 x 6 = 30)
 - c. Erb's Palsy
 - d. DMARDS
 - e. Osteomalacia

POST GRADUATE DEGREE EXAMINATION, APRIL- 2011

MS ORTHOPAEDICS

(PAPER FOUR)

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

- Q. 1. Enumerate the problems associated with the repair of articular cartilage. Discuss the various methods available for the repair of articular cartilaginous defects. (20)
- Q. 2. Discuss the evolution in AO principles in the management of fractures. Also discuss the evolution in AO plates. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Joshi's external fixator
 - b. Total knee arthroplasty
 - c. Ponsetti's technique for the management of CTEV.
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Vertebroplasty
 - b. Bone morphogenic proteins
 - c. Bio- Implants
 - d. Role of β - tricalcium in Orthopaedics
 - e. Ultra sounds in Orthopaedics

POST GRADUATE EXAMINATION, APRIL- 2012

MS ORTHOPAEDICS

(PAPER ONE)

BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Discuss the various types of bone graft and bone graft substitutes. Describe the techniques of "Bone Banking". (20)
- Q. 2.** Discuss the etiology and management of metastatic bones tumours. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Soft tissue coverage in open fractures.
 - b. Crush syndrome
 - c. Focal cartilage defects
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. SYME's Amputation
 - b. Electrodiagnosis in carpal tunnel syndrome
 - c. Management of Acute Osteomyelitis
 - d. Management of Acute Tendo Achillis Transection
 - e. Diagnosis of Hyperparathyroidism

X

POST GRADUATE EXAMINATION, APRIL- 2012

**MS ORTHOPAEDICS
(PAPER TWO)**

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Classify pelvic fractures. Describe the management in the emergency, of a young adult who is haemodynamically unstable due to an unstable pelvic injury. (20)
- Q. 2.** Classify nerve injuries. Describe the management of a closed humerus fracture with wrist drop in a 35 year old lady. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Early total care in polytrauma
 - b. Diagnosis and treatment of compartment syndrome following tight plaster in a child with forearm fracture
 - c. Classification of open fractures
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Die – Punch fracture
 - b. Floating knee injury
 - c. Spinal shock
 - d. Tension band principle
 - e. Myositis Ossificans

POST GRADUATE EXAMINATION, APRIL- 2012

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Describe investigations and medical management of Osteoporosis. (20)
- Q. 2.** Describe peripheral nerve structures and functions, mechanism of its injury and classification, investigation and diagnosis of peripheral nerve injury. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Care and management of Osteo-arthritis in adult
 - b. Lab diagnostic tests in extra pulmonary tuberculosis
 - c. Triple arthrodesis
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Neglected clubfoot
 - b. Management of Perthes disease.
 - c. Platelet rich plasma extract procurement procedure and its uses in orthopaedic conditions
 - d. Causes of foot drop
 - e. Rheumatoid arthritis classification and remission criteria.

POST GRADUATE EXAMINATION, APRIL- 2012

**MS ORTHOPAEDICS
(PAPER FOUR)**

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagnosis.

- Q. 1.** Describe the aetiopathogenesis, diagnostic tests/ investigations, criteria for assessing various risk factors and mechanical and pharmacological modern prophylaxis for deep vein thrombosis in orthopaedics. (20)
- Q. 2.** Discuss the role of stem cells in orthopaedics. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Bone Scan
 - b. Total Hip Replacement
 - c. ACL reconstruction
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Bone Densitometry
 - b. Kyphoplasty
 - c. Internal Fixators
 - d. Bone cement
 - e. PHILOS

POST GRADUATE EXAMINATION, MAY- 2013

**MS ORTHOPAEDICS
(PAPER ONE)**

BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagrams.

- Q. 1.** Discuss the various phases of a normal human bipedal gait. Describe the alteration in a Trendelenberg gate. (20)
- Q. 2.** Discuss the principles of radioisotopic bone scan giving examples of various isotopes used in orthopaedic practice. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Ideal stump
 - b. Markers of bone resorption
 - c. Compartment syndrome
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Brodie's abscess
 - b. Fibrillation potential
 - c. Relative stability
 - d. Singh's index of osteoporosis
 - e. Bone transport

POST GRADUATE EXAMINATION, MAY- 2013

MS ORTHOPAEDICS

(PAPER TWO)

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Classify fractures of lower end of femur. Discuss management of floating knee injuries. (20)
- Q. 2.** Discuss the management of an young man with multiple injuries, indentifying the priorities, keeping in mind the involvement of different specialties. (20)
- Q. 3.** Describe the management of : (3 x 10 = 30)
- a. Compound grade -III fractures of Tibia
 - b. Traumatic Paraplegia
 - c. Pott's fracture
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Non-union of fracture scaphoid
 - b. Battered baby syndrome
 - c. Rehabilitation of an above knee amputee
 - d. Biology of fracture healing
 - e. Hugh Owen Thomas

POST GRADUATE EXAMINATION, MAY- 2013

MS ORTHOPAEDICS

(PAPER THREE)

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss biomechanics of hip joint and its application in relation to unilateral Perthe's disease. (20)

Q. 2. Is Osteoporosis reversible? Discuss and describe its investigations and medical management. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Knee joint focal cartilage defects
- b. Triple arthrodesis
- c. Evaluation of metastatic bone tumours

Q. 4. Write short notes on: (5 x 6 = 30)

- a. CTEV shoes
- b. DMARDS
- c. Management of acute osteomyelitis
- d. Metabolic syndrome
- e. Muscular dystrophies

POST GRADUATE EXAMINATION, MAY- 2013

MS ORTHOPAEDICS

(PAPER FOUR)

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions

Illustrate with suitable diagrams.

- Q. 1.** Describe periprosthetic joint infections: Current concepts under the following headings: (20)
- a. Pathophysiology
 - b. Diagnostic work up – advances.
 - c. Management of and outcomes after treatment for periprosthetic joint infections.
- Q. 2.** Write an essay on Bone- Substitutes. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Knee Arthroplasty.
 - b. Role of ultra sound in orthopaedics.
 - c. Locking plates.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Articular cartilage transplantation
 - b. Vertebroplasty.
 - c. Bone densitometry
 - d. Bone cement
 - e. VAC therapy in wound management.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

**MS ORTHOPAEDICS
(PAPER ONE)**

BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the clinical presentation diagnostic modalities various classification systems of Avascular necrosis of femoral head and its management at various stages. (20)
- Q. 2.** Define osteoporosis. Discuss its classification, clinical features, diagnosis and management. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Impact of nuclear medicine on orthopaedics.
 - b. Osteotomies around hip.
 - c. Electrodagnosis studies.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Recent trends in total hip arthroplasty.
 - b. Ganga hospital classification of open fractures and its relevance.
 - c. Diagnosis of fat embolism syndrome.
 - d. Hypovolemic shock.
 - e. Bone bank.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

MS ORTHOPAEDICS

(PAPER TWO)

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Classify fracture neck femur. How will you manage this fracture in a young adult? Discuss complications. (20)
- Q. 2.** Classify cervical spine injuries. Discuss the management of various syndromes. (20)
- Q. 3.** Describe the management of : (3 x 10 = 30)
- a. Fracture neck talus.
 - b. Dislocation knee.
 - c. Intercondylar fracture humerus.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Madelung deformity.
 - b. Battered buttock syndrome.
 - c. Symes amputation.
 - d. Gerhard Kuntscher.
 - e. Erb's Palsy.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss etiopathogenesis, clinical feature, investigation and management of DDH. (20)

Q. 2. Enumerate causes of scoliosis. Give clinical feature, investigation and management of idiopathic scoliosis. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Patellofemoral malalignment.
- b. Tuberculosis of hip.
- c. Thoracic outlet syndrome.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Ewing's Sarcoma.
- b. Fibrous dysplasia.
- c. Flat feet.
- d. Haemophilic arthritis.
- e. Gout.

POST GRADUATE EXAMINATION, APRIL/ MAY- 2014

**MS ORTHOPAEDICS
(PAPER FOUR)**

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe in details: (20)
- a. Pre-operative planning for TKR.
 - b. Surgical approaches for TKR.
 - c. Steps of TKR with varus deformity.
 - d. Rehabilitation program for TKR.
- Q. 2.** Describe the evolution in AO principles and implants. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Joshi Fixator.
 - b. Limb lengthening procedures and principles.
 - c. ACL reconstruction.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. VAC therapy in orthopaedics.
 - b. MIPO
 - c. Disc replacement.
 - d. Bone morphogenic proteins.
 - e. Role of bone marrow aspirates in orthopaedics.

POST GRADUATE EXAMINATION, APRIL - 2015

**MS ORTHOPAEDICS
(PAPER ONE)**

**BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY
AS APPLIED TO ORTHOPAEDICS**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss osteoporotic fractures and principles of their management. (20)
- Q. 2.** Describe three major approaches of hip joint with their advantages and limitations. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Gap nonunion
 - b. Gas Gangrene
 - c. Bone grafts
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Trophic ulcers
 - b. Paradoxical Breathing
 - c. Lymphedema
 - d. Automatic bladder
 - e. SLAP lesion

POST GRADUATE EXAMINATION, APRIL - 2015

**MS ORTHOPAEDICS
(PAPER TWO)**

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Classify Monteggia fracture dislocation. Give diagrammatic representation. Describe surgical approach used for open reduction and internal fixation in a three weeks old patient. Enumerate complications of Monteggia fracture dislocation. (20)
- Q. 2.** Classify ankle injuries. Give diagrammatic illustrations. Discuss their management. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Management of post operative infective nonunion of compound fracture distal femur.
 - b. Post operative rehabilitation regime for lower limb fractures in adults.
 - c. Management of Brachial plexus injury in an adult patient.
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Morel-Lavallee syndrome
 - b. Shoulder hand syndrome
 - c. Crush syndrome
 - d. Painful arch syndrome
 - e. Complex regional pain syndrome

POST GRADUATE EXAMINATION, APRIL - 2015

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Write the etiology, clinical features, diagnosis and treatment of thoracic outlet syndrome. (20)

Q. 2. Write the principle and pre-requisites of tendon transfer. Plan tendon transfer in a case of gross extensor-invertor insufficiency. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Lab diagnostic tests in extra pulmonary tuberculosis.
- b. Indication and aims of surgical treatment in Pott's paraplegia.
- c. Cysts and cyst like lesions in bone.

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Ponseti technique
- b. Causes of Coxa vara
- c. Xenografts
- d. Giant cell tumour
- e. Causes of foot drop

POST GRADUATE EXAMINATION, APRIL - 2015

**MS ORTHOPAEDICS
(PAPER FOUR)**

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe the demography, characteristic features, preventive measures, principles of management and complications of fragility fractures. **(20)**

Q. 2. Describe calcium metabolism, etiology, diagnosis and management of nutritional rickets. **(20)**

Q. 3. Describe briefly: **(3 x 10 = 30)**
a. Bearing surfaces in THR.
b. Biological modulators in fracture healing.
c. Bone bank.

Q. 4. Write short notes on: **(5 x 6 = 30)**
a. Hip arthroscopy.
b. Reamplissage.
c. Endoscopic carpal tunnel release.
d. Robotic surgery in Orthopaedics.
e. Arches of the foot.

POST GRADUATE EXAMINATION, MAY - 2016

**MS ORTHOPAEDICS
(PAPER ONE)**

**BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY
AS APPLIED TO ORTHOPAEDICS**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Describe calcium metabolism, biochemical changes in different calcium metabolism disorder and management of Rickets. (20)

Q. 2. Discuss the anatomy and biomechanism of hip joint. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

a. Bone scan

b. Bone graft

c. Shock

Q. 4. Write short notes on: (5 x 6 = 30)

a. DVT

b. Gas gangrene

c. Bryant- Morrey's approach

d. Teriparatide

e. Crush syndrome

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS ORTHOPAEDICS
(PAPER TWO)
TRAUMATOLOGY**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Classify ankle injuries. Describe the mechanism of injury and management of ankle injuries. (20)

Q. 2. What is polytrauma? Describe the systemic inflammatory response and the principles of damage control in Orthopaedics in a Polytrauma patient. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Management of traumatic paraplegia
- b. Recurrent dislocation shoulder
- c. Principles of internal fixation

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Erb's palsy
- b. Floating knee
- c. Thomas splint
- d. Tension band principle
- e. Myositis ossificans

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Discuss classification and management of a case of cerebral palsy. (20)

Q. 2. Discuss the investigations and management of acute osteomyelitis. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Tuberculosis of hip
- b. Scoliosis
- c. Congenital dislocation of hip

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Osteomalacia
- b. Giant cell tumor
- c. Dequervan's disease
- d. Flat feet
- e. Neuropraxia

X

POST GRADUATE EXAMINATION, MAY - 2016

**MS ORTHOPAEDICS
(PAPER FOUR)**

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Discuss TKR & recent advances in TKR including navigation. (20)
- Q. 2. Discuss limb salvage surgery in bone tumors including mega-prosthesis implants. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Biodegradable implants
 - b. Autologous chondrocyte implantation
 - c. Bone bank
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Strontium ranelate
 - b. Robotic surgery in orthopaedics
 - c. Disadvantages of LCP
 - d. Bisphosphonates
 - e. PET

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS ORTHOPAEDICS
(PAPER ONE)**

**BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY
AS APPLIED TO ORTHOPAEDICS**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

Q. 1. Discuss blood supply of head of femur in children and adults. (20)

Q. 2. Describe sources, metabolism and functions of vitamin D. (20)

Q. 3. Describe briefly: (3 x 10 = 30)

- a. Tourniquets
- b. Direct postero-medial approach to the knee
- c. Bone substitutes

Q. 4. Write short notes on: (5 x 6 = 30)

- a. Electromyography
- b. MRI
- c. Pneumothorax
- d. Vascular injury
- e. Diabetic foot

X

POST GRADUATE EXAMINATION, MAY - 2017

MS ORTHOPAEDICS

(PAPER TWO)

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Damage control orthopaedics. (20)
- Q. 2.** Management of supracondylar humerus fracture in a child of 8 years with absent ipsilateral radial pulse. (20)
- Q. 3.** Describe briefly: (3 x 10 = 30)
- a. Tibial pilon fractures
 - b. Femoral head fracture
 - c. Scaphoid fracture management
- Q. 4.** Write short notes on: (5 x 6 = 30)
- a. Ilizarov ring fixator
 - b. Neurogenic bladder
 - c. Post-operative ACL reconstruction rehabilitation protocol
 - d. Galeazzi fracture dislocation
 - e. Tension band principle

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Describe the etiopathogenesis and discuss the management of avascular necrosis of femoral head. (20)
- Q. 2.** Describe the clinical features, investigations and treatment of osteogenic sarcoma. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Pott's paraplegia
 - b. Principles of tendon transfer
 - c. Management of CTEV
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Triple arthrodesis
 - b. Thoracic outlet syndrome
 - c. Patello femoral mal-alignment
 - d. DMARDS
 - e. Haemophylic arthritis

X

POST GRADUATE EXAMINATION, MAY - 2017

**MS ORTHOPAEDICS
(PAPER FOUR)**

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams wherever required

- Q. 1.** Discuss evolution of total hip arthroplasty with recent advancement. (20)
- Q. 2.** Discuss recent advancement in limb salvage surgery. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Masquelete technique
 - b. Recurrent dislocations of shoulder
 - c. Biologics in rheumatoid arthritis
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Reverse shoulder arthroplasty
 - b. Mosaicoplasty
 - c. Bridge plating
 - d. Role of ultrasound in orthopaedics
 - e. 3-D printing in orthopaedics

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS ORTHOPAEDICS
(PAPER ONE)**

**BASIC SCIENCES INCLUDING PRINCIPLES OF GENERAL SURGERY
AS APPLIED TO ORTHOPAEDICS**

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Describe the anatomy and course of radial nerve and discuss the clinical picture and management of high radial nerve palsy. (20)
- Q. 2.** Discuss calcium metabolism and its regulation by different hormones. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Ulnar paradox
 - b. Synovial fluid analysis
 - c. Wallerian degeneration
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Bone transplant
 - b. Diagrammatic representation of blood supply of talus
 - c. Principles of tendon transfer
 - d. Reflex sympathetic dystrophy
 - e. Functions of cartilage

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS ORTHOPAEDICS
(PAPER TWO)**

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Write classification, investigation, management and complications of acetabular fracture. (20)
- Q. 2. Discuss classification, investigations and management of distal radius fracture. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Bennett's fracture
 - b. Calcaneum fracture
 - c. A-O classifications of fracture
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Skeletal traction
 - b. Distraction osteogenesis
 - c. Sudeck's dystrophy
 - d. Stress fracture
 - e. Meniscal injury

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

**MS ORTHOPAEDICS
(PAPER THREE)**

DISEASES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1. Describe the aetiopathogenesis, clinical features and management of CTEV in a 2 months old child. (20)
- Q. 2. Describe clinical features, classification and management of Pott's paraplegia. (20)
- Q. 3. Describe briefly: (3 x 10 = 30)
- a. Hallux valgus
 - b. Acute osteomyelitis
 - c. Multiple myeloma
- Q. 4. Write short notes on: (5 x 6 = 30)
- a. Fibrous dysplasia
 - b. Chondromalacia patella
 - c. Frozen shoulder
 - d. Osgood-Schlatter disease
 - e. Volkmann's ischaemic contracture

X

POST GRADUATE (MD/ MS) EXAMINATION, SEPTEMBER/ OCTOBER - 2017

MS ORTHOPAEDICS
(PAPER FOUR)

RECENT ADVANCES IN ORTHOPAEDICS

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

- Q. 1.** Discuss the evolution of AO principles in the management of fractures. Also discuss the evolution in AO plates. (20)
- Q. 2.** What are the problems associated with the repair of articular cartilage. Discuss in details the various procedures available for the repair of articular cartilaginous defects. (20)
- Q. 3. Describe briefly:** (3 x 10 = 30)
- a. Principles of limb lengthening procedures
 - b. ACL reconstruction
 - c. Stem cells in Orthopaedics
- Q. 4. Write short notes on:** (5 x 6 = 30)
- a. Bone cement
 - b. Rehabilitation program for total knee replacement
 - c. Ultrasounds in Orthopaedics
 - d. Robotic surgery in Orthopaedics
 - e. MIPO