

POST GRADUATE EXAMINATION, APRIL - 2019

**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 in short, the development of cartilage, histology of hyaline cartilage and biomechanical functions of articular cartilage. **(20)**
- Q. 2.** Discuss, stages of fracture healing. Describe briefly, the impact of different factors that influence the process of fracture healing. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Blood supply of femoral head
 - b. Intramembranous and endochondral ossifications
 - c. Biomechanics of hip
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Mesenchymal cells
 - b. Rotator cuff
 - c. Tetanus
 - d. Fat embolism
 - e. Shock

X

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**MS ORTHOPAEDICS
(PAPER TWO)**

TRAUMATOLOGY

[Time allotted: Three hours]

[Max Marks: 100]

Note: Attempt all questions
Illustrate with suitable diagrams.

Q. 1. Classify the pelvic fractures and discuss the principles of their management. (20)

Q. 2. Classify peri-prosthetic fractures of femur following total hip arthroplasty and describe treatment options. (20)

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

- a. Classify proximal tibial fractures
- b. Myositis ossificans traumatica
- c. Principles of bone grafting

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

- a. Functional cast bracing
- b. Bennett's fracture
- c. Tests for ACL injury
- d. Fracture disease
- e. Thomas splint

X

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**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 aetiopathogenesis, clinical features and management of TB hip. (20)

Q. 2. Describe the aetiopathogenesis, clinical features and management of CTEV in a two years old child. (20)

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

- a. Hallux valgus
- b. DMARDs
- c. Osteosarcoma

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

- a. Chondromalacia patella
- b. Carpal tunnel syndrome
- c. Bone densitometry
- d. Plantar fasciitis
- e. Volkmann's ischaemic contracture

X

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**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 various advancement in articular cartilage repair techniques. (20)

Q. 2. Discuss indication, contraindication and various method of limb salvage surgery in bone tumor. (20)

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

- a. Bio-implant
- b. Bone cement
- c. Biologics in rheumatoid arthritis

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

- a. Teriparatide
- b. Platelet rich plasma
- c. MDR T.B.
- d. BMD
- e. High fibular osteotomy

X