

POST GRADUATE EXAMINATION, MAY- 2020

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.** Answer the following questions on osteoporosis: **(2+5+5+3+5= 20)**
- a. Define osteoporosis.
 - b. Illustrate dynamics of bone homeostasis and mechanism of bone mass regulation (calcium metabolism)
 - c. Write the aetiopathogenesis of Type I and Type II osteoporosis.
 - d. Discuss role of bone densitometry in osteoporosis.
 - e. Describe treatment of osteoporosis.
- Q. 2.** Discuss the anatomy and biomechanism of hip joint. **(20)**
- Q. 3. Describe briefly:** **(3 x 10 = 30)**
- a. Deep vein thrombosis
 - b. Principles of amputation
 - c. Bone healing
- Q. 4. Write short notes on:** **(5 x 6 = 30)**
- a. Fat embolism
 - b. Bone transportation
 - c. Gout
 - d. Bone scan
 - e. Gas gangrene

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 pelvic injuries. Outline the emergency and definitive management of pelvic injuries. **(20)**

Q. 2. Describe the systematic inflammatory response and principles of damage control orthopaedics in a polytrauma patient. **(20)**

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

- a. Rotator cuff injury
- b. Fracture of neck of talus
- c. Deltopectoral approach

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

- a. Morel-Lavallee lesion
- b. Fracture lateral condyle of humerus
- c. Periprosthetic fractures
- d. Classification of epiphyseal injuries
- e. Stress fracture

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 pathology, investigations and management of CTEV. **(20)**

Q. 2. Discuss clinical features, investigations and management of Pott's spine in D12. **(20)**

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

- a. Ewing's sarcoma
- b. Osteogenesis imperfecta
- c. Perthe's disease

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

- a. Ober's test
- b. Brodie's abscess
- c. Scheurmann's disease
- d. Marble bone disease
- e. Rheumatoid hand

X

POST GRADUATE EXAMINATION, MAY- 2020

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 role of drugs in the treatment of giant cell tumor. **(20)**

Q. 2. Discuss hip resurfacing and its current status. **(20)**

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

- a. Stem cell therapy
- b. ACL reconstruction
- c. Total ankle arthroplasty

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

- a. Robotic surgery in orthopaedics
- b. Taylor's spatial frame
- c. Latest cementing techniques
- d. Endoscopic discectomy
- e. Bone bank

X