

**M.S. (Orthopaedics) : SUMMER - 2019**  
**SUBJECT: PAPER – I: BASIC & APPLIED SCIENCES**

Day: Saturday  
Date: 01/06/2019

**S-2019-3849**

Time: 2.00 P.M. TO 5.00 P.M  
Max. Marks: 100

---

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat labelled diagrams **WHEREVER** necessary.
- 

**Q.1** Describe the Biomechanics of Knee joint. Discuss the clinical features and management of Meniscal injuries. **(15)**

**Q.2** Describe the anatomy of growth plate. Describe various growth plate injuries. **(15)**

**Q.3** Write notes on any **SEVEN** out of **EIGHT**: **(70)**

- a) Bone Morphogenic Proteins (BMP)
- b) Volkman's Ischaemic Contracture
- c) Hazards and prevention of radiation exposure in Orthopaedics
- d) Sterilization techniques of Operation Theatre.
- e) Gait
- f) Bone Cement
- g) Management of Osteomalacia
- h) Extensor Compartments of Forearm

\* \* \* \*

---