

**ORTHOPAEDICS**  
**PAPER-I**

TIME: 3 HOURS  
MAX. MARKS: 100

ORTHO/J/19/27/I

**IMPORTANT INSTRUCTIONS**

- This question paper consists of 10 questions divided into Part "A" and part "B", each part containing 5 questions.
- Answers to questions of part A and part B are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheet(s) of part B or Vice versa shall not be evaluated.
- Answer sheets of Part A and Part B are not to be tagged together.
- Part A and Part B should be mentioned only on the covering page of the respective answer sheets.
- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

**Write short notes on:**

**PART A**

1. a) Define shock and classify different types of hemorrhagic shock. (2+4)+(2+2)  
b) Reperfusion injury and principles of treatment of hypovolemic shock.
2. a) The different compartments of leg. 2+6+2  
b) Clinical features and management of compartment syndrome of leg.  
c) Whiteside's technique.
3. a) Anatomy of joint capsule and its surgical importance. 3+7  
b) Synovial fluid analysis in various disorders.
4. The patho-anatomy of sciatic nerve with special surgical considerations in nerve injuries. 5+5
5. a) Classify open fractures. 3+7  
b) Management of Grade III B open fracture of tibia.

**P.T.O.**

**ORTHOPAEDICS**  
**PAPER-I**

**Please read carefully the important instructions mentioned on Page '1'**

- Answers to questions of Part A and part B are to be strictly attempted in separate answer sheets and the main + supplementary answer sheets used for each part must be tagged separately.
- Answers to question(s) of Part A attempted in answer sheets of Part B or vice versa shall not be evaluated.

**PART B**

- |     |   |       |
|-----|---|-------|
| 6.  | a) Enumerate the various metabolic and endocrine diseases having skeletal manifestations. | 4+3+3 |
|     | b) Clinical features of rickets.  |       |
|     | c) Radiologic findings of rickets.  |       |
| 7.  | a) Mechanism of action and use of TENS in Orthopaedics.                                   | 5+5   |
|     | b) PET scan in Orthopaedics.  |       |
| 8.  | a) Histology of bone.   | 3+4+3 |
|     | b) Various factors regulating bone metabolism.  |       |
|     | c) Electric phenomena and electrical charges in bones.                                    |       |
| 9.  | a) Clinical features of gas gangrene.   | 3+3+4 |
|     | b) Biofilm.   |       |
|     | c) Surgical anatomy of posterior interosseous nerve.                                      |       |
| 10. | a) Anti-tubercular therapy in musculoskeletal tuberculosis.                               | 6+4   |
|     | b) Liquid culture (MGIT).   |       |

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