

**ORTHOPAEDICS**  
PAPER-IV

TIME: 3 HOURS  
MAX. MARKS: 100

ORTHO/J/19/27/IV

**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) Dual mobility in total hip arthroplasty. 5+5  
b) Orthobiologics in Orthopedics.
2. a) Indications and principles of revision total hip surgery. 5+5  
b) Discuss the different types of acetabular defects and management.
3. Current concepts in the treatment of clavicle fractures. 10
4. Unreconstructable fractures in the elderly and discuss the management options. 5+5
5. Principles of early total care and damage control Orthopedics. 5+5

P.T.O.

**ORTHOPAEDICS**  
**PAPER-IV**

**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) 3D and 4D printing in Orthopedics.   | 4+3+3 |
|     | b) Reamer irrigation aspiration system.   |       |
|     | c) Current concepts in the treatment of osteomyelitis.                              |       |
| 7.  | a) Patient specific instrumentation in arthroplasty.                                | 4+3+3 |
|     | b) V A C therapy.   |       |
|     | c) Fixation devices in cruciate ligament reconstruction.                            |       |
| 8.  | a) Role of bone marrow aspirate in Orthopedic trauma.                               | 5+5   |
|     | b) Minimal invasive spine surgery.  |       |
| 9.  | Current concepts of classification and management of thoracolumbar spine fractures. | 10    |
| 10. | a) Tranexamic acid in Orthopedic surgery.   | 3+3+4 |
|     | b) Principles of volar locking plate.   |       |
|     | c) Robotic surgery in Orthopaedics.   |       |

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