

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

TIME: 3 HOURS  
MAX. MARKS: 100

ORTHO/J/20/27/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) Principle of laminar air flow and its application in operation room.<br>b) EUSOL.  | 5+5   |
| 2. | Transport protocol of completely dis-membered finger and limb from site of injury to hospital.  | 10    |
| 3. | a) Fracture fixation using shape-memory (Nitinol) staples.<br>b) Mechanism of action of various anticoagulants and precautions required during their use.   | 5+5   |
| 4. | a) Principle & mechanism of action of a proximal femoral nail in the treatment of proximal femoral fractures.<br>b) How is it different from extra-medullary implants in the same fractures?<br>c) Write its complications and how to avoid them. | 4+3+3 |
| 5. | a) Tillaux fracture.<br>b) Complications of lateral condylar fractures in children.   | 5+5   |

**P.T.O**

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**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) Classify gunshot wounds.  | 4+6   |
|     | b) Brief management outline for a high velocity gunshot wound to thigh in an adult male with fracture shaft femur. |       |
| 7.  | a) Etiopathogenesis of hand knee gait.   | 5+5   |
|     | b) Floor reaction orthosis.  |       |
| 8.  | a) Enumerate modifiable risk factors to reduce prosthetic joint infection.   | 5+5   |
|     | b) Briefly outline indications & principles of Single stage Exchange arthroplasty for prosthetic joint infection.  |       |
| 9.  | a) Classify Tibial Plafond fractures.  | 4+4+2 |
|     | b) Outline the principles of managing these cases.   |       |
|     | c) Role of MIPO in such injuries.  |       |
| 10. | a) Explain the concept of tension band plating with the help of diagrams.  | 5+5   |
|     | b) What is the center of rotation of angulation (CORA)? Draw a diagram to show how to calculate it?                |       |

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