

ORTHOPAEDICS**PAPER-IV**

TIME: 3 HOURS

ORTH/D/20/27/IV

MAX. MARKS: 100

IMPORTANT INSTRUCTIONS

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- This question paper consists of 10 short note questions. Question paper is divided into 5 Parts - A, B, C, D and E, each part containing 2 questions.
- Answers to questions of part A, part B, part C, part D & part E are to be strictly attempted in a separate answer sheet booklet which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Answers to question(s) attempted on an answer sheet booklet for a different part will not be evaluated.
- Part A/Part B /Part C/Part D/Part E should be mentioned on the covering page of the respective answer sheet booklet.
- 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.

ORTHOPAEDICS**PAPER-IV****PART - A**

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Write short notes on:

PART - A

1. a) Uses of biological adhesives in Orthopaedics. 5+5
b) Meniscus transplantation.
2. a) What is 3D printing? What are the steps of creating a 3D print? (2+3)+5
b) Mention some important uses of this technology in Orthopaedics with examples.

**ORTHOPAEDICS****PAPER-IV****PART - B**

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Write short notes on:**PART- B**

3. a) Principles of cementless acetabular implantation. 3+3+4
b) Describe the safe zones of acetabular screw placement.
c) What are the important steps in cementless implantation in Protrusio Acetabuli?
4. a) Remplissage procedure. 4+6
b) Induced membrane technique in Orthopaedics.

**ORTHOPAEDICS****PAPER-IV****PART - C**

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Write short notes on:**PART- C**

- | | | |
|----|--|-----|
| 5. | a) Disc replacement surgery. | 5+5 |
| | b) Navigation in spine surgery. | |
| 6. | Describe concept of metaphyseal sleeve and cone in total knee replacement. | 10 |

**ORTHOPAEDICS****PAPER-IV****PART - D**

TIME: 3 HOURS

ORTH/D/20/27/IV

MAX. MARKS: 100

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Write short notes on:**PART- D**

7. Describe the method of preparing platelet rich plasma (PRP). Describe indications of PRP in musculoskeletal disorders. 3+7
8. Enumerate the causes of acquired flat foot in adults. Outline its management in brief. 3+7

**ORTHOPAEDICS****PAPER-IV****PART - E**

TIME: 3 HOURS

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MAX. MARKS: 100

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Write short notes on:**PART- E**

- | | | |
|-----|---|-----|
| 9. | a) Blood conservation strategies in major Orthopaedic surgeries. | 5+5 |
| | b) Role, mechanism of action and recommended dose of Tranexamic acid. | |
| 10. | Role of Interventional Radiology in Orthopaedics. | 10 |