

ORTHOPEDICS

PAPER-IV

TIME: 3 HOURS
MAX. MARKS: 100

ORTHO/J/18/27/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) What is free vascularized bone graft? 3+7
b) Role of free vascularized bone graft, allograft and bone substitutes in Orthopaedics.
2. a) What is biodegradable implants? 3+4+3
b) Describe various biodegradable implants used in Orthopaedics.
c) Advantages and disadvantages of biodegradable implants.
3. a) Indications and contraindications of Tibiototalcaneal (TTC) Nail. 5+5
b) Advantages of Tibiototalcaneal Nail over other methods of ankle arthrodesis.
4. a) Classification of cartilage injury. 5+5
b) Describe investigation and management of cartilage injuries of knee joint.
5. a) Define non-union. 2+3+5
b) Classification of non-union.
c) Recent advances in management of gap non-union of fracture tibia.

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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

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|-----|---|-------|
| 6. | a) Anatomy of rotator cuff of shoulder joint. | 3+7 |
| | b) Indications, contraindications and biomechanics of reverse shoulder arthroplasty. | |
| 7. | a) Recent advances in medical and surgical management of osteoporotic vertebral fracture. | 5+5 |
| | b) Minimal invasive spine surgery in Orthopaedics. | |
| 8. | a) Unicompartamental knee arthroplasty indications. | 3+4+3 |
| | b) Advantages & disadvantages of unicompartamental knee arthroplasty. | |
| | c) Complications of unicompartamental knee arthroplasty. | |
| 9. | a) Radiation hazards in Orthopaedics | 5+5 |
| | b) Preventive measures for radiation hazards in Orthopaedics | |
| 10. | Recent advances in various imaging modalities in Orthopaedics. | 10 |
