

ORTHOPAEDICS

PAPER – IV

ORTHO/J/17/27/IV

Time : 3 hours
Max. Marks : 100

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 questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.*
- *Answer sheet(s) 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 sheet(s).*
- *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) Molecular tests used in multidrug resistant tuberculosis. 4+3+3
b) Dosage & important side effects of second line drugs in osteoarticular tuberculosis.
c) Role of PET to assess healing in osteoarticular tuberculosis.
2. a) What is the method to prepare Plasma Rich Plasma (PRP)? 2+4+4
b) What are the indications of PRP in orthopedic lesions? How does it work?
c) Role of local injection of steroid versus PRP in plantar fasciitis?
3. a) Different constructs of external fixators. 6+4
b) What are the latest advances in constructs of external fixator?
4. a) What is nanotechnology? 2+3+5
b) Role of nanotechnology in orthopaedics.
c) Recent advances in detection of periprosthetic joint infections.
5. a) Management of marrow oedema syndrome 5+5
b) Management of SLAP lesions.

P.T.O.

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Please read carefully the important instructions mentioned on Page ‘1’

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- *Answers to questions of Part ‘A’ attempted in answer sheet(s) of Part ‘B’ or vice versa shall not be evaluated.*

PART B

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|-----|--|---------|
| 6. | a) What are stem cells? How stem cells are procured for therapeutic use? | 3+3+4 |
| | b) Indications of stem cell therapy in orthopaedics. | |
| | c) Role of stem cell therapy in avascular necrosis of head of femur. | |
| 7. | a) Role of templating in Total Hip Arthroplasty (THA). | 3+(3+4) |
| | b) Outline the steps of templating in protrusio acetabuli and a laterised hip with suitable diagrams. | |
| 8. | a) What are the various types of grafts used to reconstruct ACL? | 3+3+4 |
| | b) What is double bundle ACL reconstruction? | |
| | c) Steps to reconstruct multi-ligamentous injury around knee. | |
| 9. | a) Role of navigation in total knee arthroplasty. | 6+4 |
| | b) What precautions you will take while doing total knee arthroplasty with fixed flexion and valgus deformity in knee? | |
| 10. | Recent advances in cup and stem designs of cemented and uncemented hips. | 10 |
