

ORTHOPAEDICS
PAPER-I

TIME: 3 HOURS
MAX. MARKS: 100

ORTHO/J/19/27/I

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) Define shock and classify different types of hemorrhagic shock. (2+4)+(2+2)
b) Reperfusion injury and principles of treatment of hypovolemic shock.
2. a) The different compartments of leg. 2+6+2
b) Clinical features and management of compartment syndrome of leg.
c) Whiteside's technique.
3. a) Anatomy of joint capsule and its surgical importance. 3+7
b) Synovial fluid analysis in various disorders.
4. The patho-anatomy of sciatic nerve with special surgical considerations in nerve injuries. 5+5
5. a) Classify open fractures. 3+7
b) Management of Grade III B open fracture of tibia.

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

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 6. a) Enumerate the various metabolic and endocrine diseases having skeletal manifestations.
b) Clinical features of rickets.
c) Radiologic findings of rickets. | 4+3+3 |
| 7. a) Mechanism of action and use of TENS in Orthopaedics.
b) PET scan in Orthopaedics. | 5+5 |
| 8. a) Histology of bone.
b) Various factors regulating bone metabolism.
c) Electric phenomena and electrical charges in bones. | 3+4+3 |
| 9. a) Clinical features of gas gangrene.
b) Biofilm.
c) Surgical anatomy of posterior interosseous nerve. | 3+3+4 |
| 10. a) Anti-tubercular therapy in musculoskeletal tuberculosis.
b) Liquid culture (MGIT). | 6+4 |
