

ORTHOPAEDICS**PAPER-I**

TIME: 3 HOURS
MAX. MARKS: 100

ORTHO/J/20/27/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. Describe the anatomy of brachial plexus. Classify brachial plexus injuries and discuss the clinical methods to identify the level of lesion. How will you differentiate pre-ganglionic lesion from post-ganglionic lesion? 4+4+2
2. Write briefly on the role of interventional radiology in orthopedics. Support with at least two examples in detail. 5+5
3. a) Blood supply of the femoral head. 4+6
b) Safe surgical dislocation of the hip and how it maintains the blood supply to the hip.
4. a) What is the pathogenesis of claw hand? 3+3+4
b) What are the other conditions which can cause a claw hand deformity apart from ulnar nerve palsy?
c) Briefly describe the tendon transfers used to correct claw hand.
5. a) Describe different zones of articular cartilage with diagram. 5+5
b) Pathogenesis of primary osteoarthritis of knee.

P.T.O

ORTHOPAEDICS
PAPER-I

Please read carefully the important instructions mentioned on Page '1'

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PART B

6. a) Spinal shock. 4+6
b) Electrodiagnostic tests in management of peripheral nerve injuries with special reference to H wave and F reflex.
7. a) Describe the histology of a physis. 3+3+4
b) Enumerate the common orthopedic conditions related to disorders of physis.
c) Management of post traumatic unilateral physeal bar in a growing child.
8. a) How is joint reaction force created at the hip joint and what are the factors which affect it? 6+4
b) How does use of a cane, affect joint reaction force at the hip?
9. a) Draw the diagram of the normal parameters of the lower extremity alignment and label the normal values of each parameter, by drawing a Scannogram. 5+5
b) Functional and surgical anatomy of the distal humerus.
10. a) What is the concept of spinal stability? Describe checklist for the diagnosis of clinical instability in the lower cervical spine. 5+5
b) Canadian C-Spine Rule.
