P.T.O

ORTHOPAEDICS PAPER-I

TIME: 3 HOURS ORTHO/J/20/27/I

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 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 4+4+2 plexus injuries and discuss the clinical methods to identify the level of lesion. How will you differentiate pre-ganglionic lesion from post-ganglionic lesion? 2. Write briefly on the role of interventional radiology in 5+5 orthopedics. Support with at least two examples in detail. 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 + 4b) 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 5+5

b) Pathogenesis of primary osteoarthritis of knee.

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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 + 4b) 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 6+4 the factors which affect it? 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 5+5 extremity alignment and label the normal values of each parameter, by drawing a Scannogram. b) Functional and surgical anatomy of the distal humerus. 10. a) What is the concept of spinal stability? Describe checklist for the 5+5 diagnosis of clinical instability in the lower cervical spine. b) Canadian C-Spine Rule.
