

**RADIOLOGY**  
**PAPER-I**

**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**

6. a) Describe in brief anatomy of the shoulder joint. 4+6  
b) Briefly state various MR sequences and planes used to evaluate shoulder joint on MR (Magnetic resonance) imaging.
7. a) What are the causes of hyperparathyroidism? 4+6  
b) Enumerate the finding on Plain film, CT and scintigraphy of primary hyperparathyroidism.
8. a) Enumerate causes of unilateral proptosis. 4+(3+3)  
b) Describe briefly imaging findings of optic gliomas and Caroticocavernous fistula.
9. A 40 year old female has presented with loss of vision and instability in gait. 6+4  
a) Discuss the differential diagnosis and MR findings of the most probable cause.  
b) What is the role of Diffusion Tensor Imaging in this patient?
10. A 15-year boy presents with localized swelling and pain of 2 months duration involving right lower thigh. 4+6  
a) What will be its differential diagnosis?  
b) Discuss Conventional Radiographic, CT and MRI features of the commonest primary malignant bone tumour in this age.

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