

**RADIODIAGNOSIS**

PAPER – IV

**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 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.*

**PART B**

- |     |  |         |
|-----|--|---------|
| 6.  | a) What is “bone age”?   | 1+2+4+3 |
|     | b) What are the clinical applications of its determination?  |         |
|     | c) Factors which can affect the bone age of a person.  |         |
|     | d) How reliable is bone age from the standpoint of forensic radiology?   |         |
| 7.  | a) Mammography tube - differences with conventional X-ray tube.  | 5+5     |
|     | b) Aliasing on colour Doppler and its application.   |         |
| 8.  | Role of perfusion imaging, diffusion-weighted imaging and MR spectroscopy in the diagnosis and classification of common intraaxial brain tumors in adults. | 10      |
| 9.  | a) Percutaneous trans-hepatic biliary drainage.  | 5+5     |
|     | b) Chi Square test & its usefulness in clinical research.  |         |
| 10. | a) Side effects of gadolinium based compounds.   | 5+2+3   |
|     | b) How does the safety profile vary with compound structure?   |         |
|     | c) What new concerns have been raised against them which might act as a deterrent in their usage even in patients with normal renal function?              |         |

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