

**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 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 MR contrast media for liver imaging.<br>b) What is contrast induced nephropathy (CIN)?<br>c) What will you do to prevent CIN?                                                     | 4+3+3 |
| 7.  | a) Describe the principle of Dual Energy CT.<br>b) Describe its various applications.                                                                                                         | 5+5   |
| 8.  | a) What is p value? What is its significance and clinical application in research?<br>b) What is sensitivity, specificity, positive predictive value, negative predictive value and accuracy? | 3+7   |
| 9.  | a) What do you mean by AERB, eLORA and ALARA?<br>b) How will you minimize Radiation Hazards?                                                                                                  | 4+6   |
| 10. | a) Artificial Intelligence in Health care.<br>b) Discuss its advantages and disadvantages.                                                                                                    | 5+5   |

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