QP Code: 101116

Reg. No.:.....

PG Degree Regular/Supplementary Examinations in Radio diagnosis (MD) May 2022

Paper I – Basic Science, Radiation Physics, Radiological Anatomy and Contrast Media

Time: 3 hrs **Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: **(20)**

1. Describe basic principles of MRI. Discuss superconducting MRI system and various coils used in imaging.

Short essays: **(8x10=80)**

2. Classify MRI contrast agents. Discuss about Hepatobiliary- specific MRI contrast media.
3. Discuss the properties of flat panel detectors.
4. Mammographic tube and its applications.
5. Ultrasound transducer technology.
6. Hounsfield Unit and CT windows.
7. ALARA Principle (As low as reasonably achievable).
8. Describe segmental anatomy of liver. Discuss radiological work up in liver transplant.
9. Radiologic anatomy of suprahyoid neck spaces and its imaging implications.

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