

QP CODE: 301018

Reg. No.....

**Third Year B.Sc MRT Degree Regular/Supplementary Examinations
April 2024**

Radio diagnosis II

Time: 3 Hours

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*

Essays:

(3x10=30)

1. Describe in detail about MRI equipment and basic physical principle of MR imaging. What are the different types of MRI coils. What are the contraindications and safety precautions to be followed in MRI.
2. Explain radiological anatomy of large bowel with diagram. What are indications, preparation of patient and radiographic techniques involved in barium enema.
3. What is the examination procedure, preparation and positioning of patient and imaging protocol of a routine CT brain

Short notes:

(8x5=40)

4. Image intensifier
5. Ultrasound transducer
6. Mammography
7. Bone scintigraphy
8. Hysterosalpingography
9. Digital Subtraction Angiography
10. Retrograde urography
11. MR urography

Answer briefly:

(10x3=30)

12. Xeroradiography
13. Slip ring technology
14. MR artefacts
15. Timing of different phases in renal CT protocol imaging
16. Advantages of digital radiography
17. Positive and negative oral contrast agents in CT
18. Gadolinium based contrast agents
19. Susceptibility weighted imaging (SWI)
20. Timing of films in IVU
21. Schematic diagram of a gamma camera
