

QP CODE: 301018

Reg. No.....

**Third Year B.Sc MRT Degree Regular/Supplementary Examinations
April 2023**

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. What is Intravenous Urogram (Excretory urography). Describe preparation of patient. What is the contrast used. Briefly write about the procedure. What alternative is to be done if contrast filled ureter is not seen in supine film.
2. What is Macro radiography. Write down its principles, its inherent un sharpnesses and applications. Mention the importance of Macroradiography in the present scenario.
3. Diagram the Image intensifier tube, label its principal parts and explain the functions of each.

Short notes:

(8x5=40)

4. Computed Radiography (CR).
5. Importance of compression in Mammography.
6. Catheters in interventional radiology.
7. What is CPU in computer. List its three principal parts and describe their functions.
8. Gradient coils in MRI.
9. MR Sequences adopted in Carcinoma prostate.
10. Radiological anatomy of Retroperitoneum.
11. CT imaging in Renal mass.

Answer briefly:

(10x3=30)

12. Vertebral curves.
13. Elution in isotope study.
14. Transducers in ultrasonography.
15. Tele Radiology.
16. Dacryocystography.
17. Surface Shaded Display (SSD) in Multi Planar Reconstruction (MPR) algorithm in CT.
18. MR contrast media.
19. Fracture Zygomatic bone.
20. Pneumothorax.
21. Measures to overcome inhomogeneity in Magnetic field.
