

**QP CODE: 301018**

**Reg. No.....**

**Third Year B.Sc MRT Degree Regular/Supplementary Examinations  
August 2019**

**Radio diagnosis II**

**Time: 3 Hours**

**Max Marks: 100**

- **Answer all Questions**
- **Draw diagrams wherever necessary**

**Essays: (3x10=30)**

1. What are the indications, contraindications, preparation, procedure and complications of intravenous urography.
2. What are radioisotopes. Describe any two radioisotopes imaging study in detail.
3. Describe the coils used in MRI and the imaging protocol of MRI brain in a patient suspected of ischemic stroke.

**Short notes: (8x5=40)**

4. Explain the various reconstruction algorithm used in CT
5. The procedure of image formation in CR
6. Describe briefly about oral cholecystography
7. Image intensifier
8. MR contrast media
9. What is ALARA. Explain its significance
10. Colour Doppler ultrasound
11. Retrograde urethrography

**Answer briefly: (10x3=30)**

12. What is TR and TE in MRI
13. Beam hardening artifact
14. Bolus tracking
15. Cyclotron
16. Define hybrid imaging technology
17. Radiology information system (RIS)
18. Artefacts in ultrasonography
19. CT protocol of coronary angiography
20. Hysterosalpingography
21. MRCP.

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