

**QP CODE: 301018**

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

**Third Year B.Sc MRT Degree Examinations March 2017**

**RADIODIAGNOSIS II**

**Time: 3 Hours**

**Max Marks: 100**

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

**Essays:**

**(3x10=30)**

1. Discuss the principles of helical and multi detector CT. Mention their current applications.
2. Radiological anatomy of small bowel and describe the barium investigations for study of small bowel.
3. What is digital subtraction angiography. Discuss the indications and limitations in the areas of head and neck.

**Short notes:**

**(8x5=40)**

4. Ultrasound transducers.
5. Radiotracers for bone scintigraphy.
6. MR mammography.
7. Principles of computed radiography.
8. Procedure of intravenous urogram.
9. MR instrumentation
10. Name four pulse sequences used in MR imaging and mention in detail about one of them.
11. Radiological anatomy of oesophagus and mention briefly on barium swallow.

**Answer briefly:**

**(10x3=30)**

12. Xeroradiography
13. Preparation for intra venous urography.
14. Renal scintigraphy
15. Retrograde urography
16. MR artefacts.
17. Direct digital radiography.
18. Sialography.
19. Doppler effect.
20. Principles of SPECT.
21. CT protocol of kidney.

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