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Total No. of Pages : 02

Total No. of Questions : 11

**M.Sc. (Radiology & Imaging Technology) (Sem.-3)**  
**INTERVENTIONAL RADIOLOGY TECHNIQUES**

Subject Code : MRIT-302-21

M.Code : 92655

Date of Examination : 14-12-22

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains EIGHT questions carrying FIVE marks each and students have to attempt any SIX questions.
3. SECTION-C will comprise of two compulsory questions with internal choice in both these questions. Each question carries TEN marks.

**SECTION-A**

**1. Answer briefly :**

- a) Role of technologist in radiology department.
- b) What is Single plane and Biplane?
- c) What is DEXA?
- d) What is real time fluoroscopy?
- e) What is Tomosynthesis?
- f) Write an application of DSA Equipment.
- g) What is thyroid ablation?
- h) Enlist the various units of radiation.
- i) Write a Basic principle of Ultrasonography.
- j) Significance of iodine of I<sup>131</sup> therapy for thyrotoxicosis.

### **SECTION-B**

2. Discuss about types of modern X Ray tubes.
3. Write about handling in case of slipping of radioactive substance.
4. Discuss in brief about the procedure of PET imaging.
5. Write about Dose calibrator.
6. What is computed radiography and write their principle?
7. Write note on MRI procedure with contradiction and indication.
8. Elaborate Stenting Nephrostomy.
9. Give brief discussion about Radionuclide scanning principles, working, applications and advancements.

### **SECTION-C**

10. Difference between the PET and SPECT, specially focused on various isotopes use in technique.

**OR**

Elaborate the thyroid Imaging.

11. Detailed discussion about interventional procedure along with pre and post patient care.

**OR**

Elaborate the basic principle of Ultrasound. Describe in detail about image formation in Ultrasonography.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**