

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

M.Sc. (Radiology & Imaging Technology) (Sem.-1)
MODERN IMAGING TECHNIQUES INCLUDING FUSION & HYBRID IMAGING TECHNOLOGIES

Subject Code : MRIT 102-21

M.Code : 91375

Date of Examination : 17-01-23

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. Answers the following questions :**
- Define the term percutaneous catheterization.
 - Discuss about use of single plane digital subtraction.
 - What is femoral arteriography? How it is carried out?
 - Explain biopsy procedure briefly.
 - What is the meaning of term fusion hybrid imaging?
 - What is MRS blood flow imaging?
 - Write about role of radiographer.
 - Define the cerebral venography.
 - How arthrography of shoulder takes place?
 - How MRI imaging is carried out?

SECTION-B

2. Write about diagnostic procedures of angioplasty and angiography.
3. Describe about cerebral studies in detail.
4. Explain the 4 vessel angiography procedure.
5. Discuss cardiac catheterization.
6. Detail about the instructions given to patients for procedure of Tas and Neck USG.
7. How the available techniques utilized to guide clinicians for CT anatomy and pathology?
8. Discuss the MRI imaging of thorax and abdomen.
9. Explain Fluoroscopy and its role in imaging

SECTION-C

10. Discuss clinical indications and contraindications of MRI imaging.

OR

Write an exhaustive note on Doppler's studies.

11. Explain the procedure for renal evaluation and drainage.

OR

Explain cardiac catheterization procedures of PTCA and Pacemaker.

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.