

Roll No.

Total No. of Pages : 02

Total No. of Questions : 11

M.Sc. (Radiology & Imaging Technology) (Sem.-1)
INSTRUMENTATION OF CONVENTIONAL X-RAY &
SPECIALIZED RADIOLOGY EQUIPMENTS

Subject Code : MRIT 104-21

M.Code : 91377

Date of Examination : 21-01-23

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 carrying **TEN** marks each.

SECTION-A

1. Write briefly:

- a) What do you understand by Polyphase supply?
- b) Enlist the x-ray circuit components.
- c) Enlist the type of rectifiers.
- d) Describe ionization timers.
- e) What do you mean by mobile x-ray equipment?
- f) What is the principle of tomography?
- g) Define quality assurance program.
- h) List the equipment for linear tomography.
- i) What is skull table?
- j) What do you mean by corrective action?

SECTION-B

2. Describe the safety rules for radiographers.
3. Describe in detail types of generators.
4. What are the devices for improving radiographic quality? Give the detail.
5. Write a note on exposur switching and its applications.
6. What are the acceptable limits of variations?
7. Describe the spot film devices.
8. Discuss the details of dental x-ray equipment.
9. What is panel type image intensifier? Give a descriptive account.

SECTION-C

10. Describe in detail about the medium frequency and high frequency generators.

OR

What is Pantomography? Why is important in dentistry? Give an detail account for the instrument used for Pantomography.

11. Give a detail account on the equipment for cranial and skeletal radiography.

OR

Discuss in detail about care, maintenance and quality control test for mammograph and Skeletal radiography instruments.

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.