

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 2514

M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY

SECOND YEAR (From 2020-2021 onwards)

PAPER IV – INTERVENTION RADIOLOGICAL TECHNIQUES AND PATIENT CARE

Q.P. Code: 282514

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. What are the safe radiation dose limits and radiation hazards in Interventional Radiology? What are the measures you will take to reduce the dose to the patient and the operator?
2. What is embolisation? Explain in detail about the clinical uses of this procedure, and classify the embolising agents used in Interventional Radiology.

II. Write Short Notes on:

(10x6 = 60)

1. FNAC and biopsy - indications, imaging modalities for guidance and patient preparation.
2. Percutaneous nephrostomy - indication, technique and patient preparation.
3. How will you prevent a procedure related infection in the cath lab?
4. Briefly explain the types of anesthesia for different Interventional Radiology procedures.
5. Discuss in detail the tools for revascularization of blocked blood vessels.
6. Pulmonary angiography - indications and technique.
7. Discuss the different types of vascular sheaths and compare their uses and advantages.
8. What are the different types of cath labs and their uses?
9. Principles and techniques of sterilization.
10. Discuss the classification of microorganisms causing human infection.
