

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

[DM 0124]

JANUARY 2024

Sub. Code :1511

D.M. – INTERVENTIONAL RADIOLOGY

**PAPER I – BASIC SCIENCES
(CONSISTING OF VASCULAR ANATOMY, RADIATION PHYSICS AND
INSTRUMENTATION RELATED TO INTERVENTIONAL RADIOLOGY)**

Q.P. Code: 161511

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Anatomy of the Aortic arch and the branches. Relevance to Interventional Radiology.
2. Planning of Digital subtraction angiography setup.

II. Write notes on:

(10 x 7 = 70)

1. Liquid embolization material.
2. Carbon dioxide angiography.
3. Snare design and applications.
4. Thermal ablation.
5. Safety and Sterility of ultrasound probes.
6. Lymphatic system – Anatomy and Roots of access.
7. Quality Assurance in IR.
8. Challenges in vascular access.
9. Monitoring a patient in IR.
10. Hepatic arterial anatomy relevant for transplantation.
