

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2102

**B.Sc. NUCLEAR MEDICINE TECHNOLOGY
FIRST YEAR (Regulation 2010-2011)
PAPER II – IMAGE PROCESSING TECHNIQUES
Q.P NO. 802102**

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: (3 x10 = 30)

1. Explain the Nuclear Medicine Image Acquisition process.
2. What is telemedicine? Explain the role of networking in Nuclear Medicine.
3. Explain the Data Losses and Data Back-up in computer usage.

II. Write Notes on: (8 x 5 = 40)

1. Describe the dry processing of films.
2. Mention briefly about windowing in image.
3. Image contrast.
4. Flat panel monitors.
5. IP address.
6. Grey scale and color display.
7. Types of X-ray films and their usage.
8. Image filtering.

III. Write short notes on: (10 x 3 = 30)

1. Data Archiving.
2. Radioactive Markers.
3. Enumerate the types of Image processing equipment.
4. Mention briefly the computer output device.
5. Image fusion.
6. Image segmentation.
7. Dry bench in a dark room.
8. Read-Only Memory (ROM).
9. Random Access Memory (RAM).
10. Storage device.
