B.Sc. NUCLEAR MEDICINE TECHNOLOGY
FIRST YEAR
PAPER II – IMAGE PROCESSING TECHNIQUES

Q.P. Code: 802102

Time: Three Hours   **Maximum : 100 Marks**

Answer All Questions

I. Elaborate on: **(3 x 10 = 30)**

1. Explain the different Soft ware used in Image Processing.
2. Explain the Nuclear Medicine Image Acquisition process.
3. Explain the Data Loses and Data Back-up in computer usage.

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

1. Word Processing.
2. Operating System.
3. Spatial Relationship.
4. Image acquisition windowing.
5. Image Filters.
6. Image Quality and Sharpness.
7. Film Structure and quality.
8. Analog Image.

III. Short Answers on: **(10 x 3 = 30)**

1. 3D display.
2. IP Address.
3. Line Spread Function.
4. Wet Processing.
5. Image fusion.
6. SPECT.
7. Storage device.
8. Key Board.
9. Digitally Reconstructed image.
10. Film characteristics.

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