

[LQ 0220]

FEBRUARY 2020

Sub. Code: 2102

**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. Enumerate the process involved in image processing.
2. Explain data losses and data backup in computer usage.
3. What is CPU in computer? Write about its components.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Background correction.
2. Matrix size.
3. Image filters.
4. Types of X-ray film and their usage.
5. Image acquisition interface.
6. Surface marking in images.
7. Image contrast.
8. R.A. markers used in imaging.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Key board.
2. Tele radiology.
3. Slice thickness.
4. Word processing.
5. Storage devices.
6. Data archiving.
7. Automatic film processor.
8. PACS.
9. Laser prints.
10. Cathode ray tubes.

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