

[AHS 0321]

MARCH 2021

Sub. Code: 2102

(AUGUST 2020 EXAM SESSION)

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

FIRST YEAR (Regulations 2010-2011)

PAPER II – IMAGE PROCESSING TECHNIQUES

*Q.P. Code : 802102***Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Various methods of storage and processing of digital images in Nuclear Medicine.
2. What is CPU in a computer, briefly write about its components?
3. Explain different software used in image processing.

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

1. Safe light.
2. Color images and its digital representation.
3. Computer network.
4. PACS.
5. What is the purpose of filtering the image?
6. PIXEL.
7. Day light processing.
8. Flat panel monitors.

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

1. Window levels in image display.
2. Bytes.
3. Teleradiology.
4. DICOM.
5. List mode.
6. Point spread function.
7. DICOM.
8. Colour scale.
9. Types of X-ray Films.
10. Frame mode acquisition.
