

[LP 0819]

AUGUST 2019

Sub. Code: 2103

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

FIRST YEAR

PAPER III – BASIC PHYSICS & NUCLEAR PHYSICS

Q.P. Code: 802103

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Explain Compton scattering and pair production.
2. Explain the types of Radioactive decay.
3. Explain on Mass energy equivalence.

II. Write notes on:

(8 x 5 = 40)

1. Inverse Square Law.
2. Half life of Tc-99m.
3. Voltmeter & Ammeter.
4. Fluorescence.
5. Electromagnetic Induction.
6. Coloumb Law.
7. Radiation Intensity.
8. Photoelectric effect.

III. Short answers on:

(10 x 3 = 30)

1. Unit for radiation absorption.
2. Resistance.
3. Nucleus particles.
4. Isobar.
5. Ionisation.
6. Shielding material for Gamma.
7. Relationship of GBq and Ci.
8. Excited State.
9. Half Life of I-121.
10. Istope.
