

[LG 0215]

FEBRUARY 2015

Sub.Code :2103

B.Sc. NUCLEAR MEDICINE TECHNOLOGY

FIRST YEAR

PAPER III – BASIC PHYSICS AND NUCLEAR PHYSICS

Q.P. Code: 802103

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 =30)

1. Electromagnetic Spectrum.
2. Photoelectric effect and Compton scattering.
3. Natural Radioactivity.

II. Write Notes on:

(8 x 5 = 40)

1. Exposure.
2. Artificial radioactivity.
3. Half Life.
4. Pair Production.
5. Joule 's law.
6. Properties of X rays.
7. Binding forces between nuclear particles.
8. Bohr's atom model.

III. Short Answers on:

(10 x 3 = 30)

1. Isobars.
2. Curie.
3. Becquerel.
4. Gray.
5. Ohm's law.
6. Linear attenuation coefficient.
7. Coulomb's law.
8. Decay factor.
9. Tc99m.
10. Electricity.
