[LI 0216] FEBRUARY 2016 **Sub. Code: 1402**

DIPLOMA IN RADIOLOGY IMAGING TECHNOLOGY
FIRST YEAR
PAPER II – GENERAL PHYSICS, RADIATION PHYSICS & PHYSICS OF DIAGNOSTIC RADIOLOGY

Q.P. Code : 841402

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

Answer All questions.

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

1. Compare the Properties of Alphs, Beta, Gamma, X-ray.
2. State Fleming's Lt. and Rt. Hand Rule.
3. Electromagnetic Loss.

II. Write notes on: **(10 x 5 = 50)**

1. Electromagnetic Spectrum.
2. SI unit of Temp, Radiation Absorption, Heat, Pressure.
3. Elimination of Heat in X-ray tube.
4. Rectification circuit.
5. TLD Badge.
6. Usage of Filters in X-ray.
7. Usage of Survey Meter.
8. Find the Intensity of radiation at 3mt, if it is 20R at 1mt.
9. Ionisation and Excitation.
10. Ohm's Law.

III. Short answers on: **(10 x 2 = 20)**

1. Unit for Magnetic Flux.
2. Atomic Elements.
3. Joule's Law.
4. TLD.
5. Electro Magnetic Induction.
6. Reason for Tungsten in Cathode X-ray tube.
7. Curie.
8. Solid State Rectifiers.
9. HVL.
10. 2 Radioactive Isotopes.

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