

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY /
RADIO DIAGNOSIS TECHNOLOGY**

FIRST YEAR

**PAPER II – GENERAL PHYSICS, RADIATION PHYSICS AND
PHYSICS OF DIAGNOSTIC RADIOLOGY**

Q.P. Code: S01S02

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. The properties of α , β and γ rays.
2. The production of X-rays with a diagram.
3. Any one x-ray circuit with a neat sketch

II. Write notes on:

(8 x 5 = 40)

1. What are ferromagnetic materials? What are magnetic lines forces? Mention unit of magnetic strength.
2. Radioactive materials.
3. Derivation of the equation for radioactive decay.
4. Factors that affect the quality and intensity of X-rays.
5. Heel effect of an X ray tube.
6. Note on characteristic spectrum. Which is the component in the X-ray tube that changes characteristic spectrum?
7. Photoelectric effect and its relevance in diagnostic radiology?
8. Note on radiation detection and measurements.

III. Short Answers on:

(10 x 3 = 30)

1. What is the law of conservation of energy?
2. Define work. What is the unit of work?
3. Mention briefly the atomic structure and atomic particles.
4. Define electric current. What is its unit?
5. Write Newton's laws of forces (any two). Give an example for the third law.
6. What is main advantage of rotating anode over the stationary anode?
7. What is natural radioactivity?
8. Define half-life of a radioactive substance. Write the equation to calculate the halflife.
9. What are radioisotopes and how are they prepared?
10. What are equipments used for radiation survey?

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Yicheng Fang



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