

**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?

2014 25 March Electro Technology Question Paper

Katrin Zwirglmaier



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Table of Contents 2014 25 March Electro Technology Question Paper

1. Understanding the eBook 2014 25 March Electro Technology Question Paper
 - The Rise of Digital Reading 2014 25 March Electro Technology Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 25 March Electro Technology Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2014 25 March Electro Technology Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 25 March Electro Technology Question Paper
 - Personalized Recommendations
 - 2014 25 March Electro Technology Question Paper User Reviews and Ratings
 - 2014 25 March Electro Technology Question Paper and Bestseller Lists

5. Accessing 2014 25 March Electro Technology Question Paper Free and Paid eBooks
 - 2014 25 March Electro Technology Question Paper Public Domain eBooks
 - 2014 25 March Electro Technology Question Paper eBook Subscription Services
 - 2014 25 March Electro Technology Question Paper Budget-Friendly Options
6. Navigating 2014 25 March Electro Technology Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014 25 March Electro Technology Question Paper Compatibility with Devices
 - 2014 25 March Electro Technology Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 25 March Electro Technology Question Paper
 - Highlighting and Note-Taking 2014 25 March Electro Technology Question Paper
 - Interactive Elements 2014 25 March Electro Technology Question Paper
8. Staying Engaged with 2014 25 March Electro Technology Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 25 March Electro Technology Question Paper
9. Balancing eBooks and Physical Books 2014 25 March Electro Technology Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 25 March Electro Technology Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2014 25 March Electro Technology Question Paper
 - Setting Reading Goals 2014 25 March Electro Technology Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2014 25 March Electro Technology Question Paper
 - Fact-Checking eBook Content of 2014 25 March Electro Technology Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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