

[KY 012]

Sub. Code: 4012

M.Sc (MEDICAL PHYSICS) DEGREE EXAMINATION**(Revised Regulations for Candidates admitted from 2010-2011)****FIRST YEAR****Paper II – RADIOLOGICAL MATHEMATICS*****Q.P. Code : 284012*****Time : Three hours****Maximum : 100 marks****Answer All questions.****I. Elaborate on :****(2 X 20=40)**

1. Describe the following concepts (a) accuracy and precision (b) round-off-error (c) addition and multiplication law of probability (d) Confidence intervals
2. (a) Evaluate $\int_0^1 dx/1+x^2$ using Simpson's three-eighth rule and compare with the solution (b) Explain about five properties of Chi-square distribution

II. Write notes on :**(10X 6 = 60)**

1. Calculate the decay constant for cobalt-60 ($T_{1/2}=5.26\text{yrs}$) in units of month^{-1}
2. What will be the activity of 5000 Ci of cobalt-60 source after 4years?
($A=A_0 e^{-\lambda t}$)
3. A treatment regimen with total dose of 20Gy must be given in two phases. The ratio of the dose in each phase is 3:1. What dose must be given for each phase?
4. In a certain residential area, a sample of 15 households showed the following incomes (in rupees) for the households:

1044	796	812	2100	902	600	796	
672	482	1828	2358	939	550	796	325

Find out the mean, median and the mode for the sample.

(PTO)

Students Radiological Mathematics

U.S. Atomic Energy Commission

A red circular graphic with a gradient, appearing as a stylized sun or a lens flare, positioned to the right of the U.S. Atomic Energy Commission text.

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mathematics education community continues to contribute research based ideas for developing and improving problem posing as an inquiry based instructional strategy for enhancing students learning A large number of studies have been conducted which have covered many research topics and methodological aspects of teaching and learning mathematics through problem posing The Authors groundwork has shown that many of these studies predict positive outcomes from implementing problem posing on student knowledge problem solving and posing skills creativity and disposition toward mathematics This book examines in depth the contribution of a problem posing approach to teaching mathematics and discusses the impact of adopting this approach on the development of theoretical frameworks teaching practices and research on mathematical problem posing over the last 50 years **Resources in Education** ,1997 **The Theory and Practice of Radiology with a Synopsis of Radiography and Radiotherapy** Bernard John Leggett,1928 **Health Physics in the Healing Arts** United States. Bureau of Radiological Health,1973 Sponsored by Puerto Rico Chapter Health Physics Society cosponsored by USAEC Puerto Rico Nuclear Center

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Table of Contents Students Radiological Mathematics

1. Understanding the eBook Students Radiological Mathematics
 - The Rise of Digital Reading Students Radiological Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Students Radiological Mathematics
 - 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 Students Radiological Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Students Radiological Mathematics
 - Personalized Recommendations
 - Students Radiological Mathematics User Reviews and Ratings
 - Students Radiological Mathematics and Bestseller Lists
5. Accessing Students Radiological Mathematics Free and Paid eBooks
 - Students Radiological Mathematics Public Domain eBooks
 - Students Radiological Mathematics eBook Subscription Services
 - Students Radiological Mathematics Budget-Friendly Options
6. Navigating Students Radiological Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Students Radiological Mathematics Compatibility with Devices
 - Students Radiological Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Students Radiological Mathematics
 - Highlighting and Note-Taking Students Radiological Mathematics
 - Interactive Elements Students Radiological Mathematics
8. Staying Engaged with Students Radiological Mathematics

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Students Radiological Mathematics
- 9. Balancing eBooks and Physical Books Students Radiological Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Students Radiological Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Students Radiological Mathematics
 - Setting Reading Goals Students Radiological Mathematics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Students Radiological Mathematics
 - Fact-Checking eBook Content of Students Radiological Mathematics
 - 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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