

**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)**

- Describe the following concepts (a) accuracy and precision (b) round-off-error (c) addition and multiplication law of probability (d) Confidence intervals
- (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)**

- Calculate the decay constant for cobalt-60 ( $T_{1/2}=5.26$  yrs) in units of  $\text{month}^{-1}$
- What will be the activity of 5000 Ci of cobalt-60 source after 4 years?  
( $A=A_0 e^{-\lambda t}$ )
- 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?
- 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.

# Students Radiological Mathematics

**U.S. Atomic Energy Commission**



## **Students Radiological Mathematics:**

**A Students' Radiological Mathematics** Lloyd Asquith Winston Kemp,1951      **Radiography** ,1956      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1970 First multi year cumulation covers six years 1965 70      *Mathematical and Physical Papers: Voltaic theory, radioactivity, electrons, navigation and tides, miscellaneous* William Thomson Baron Kelvin,1911      **Radiologic Science for Technologists - E-Book** Stewart C. Bushong,2012-06-15 Develop the skills and knowledge to make informed decisions regarding technical factors and diagnostic imaging quality with the vibrantly illustrated Radiologic Science for Technologists 10th Edition Updated with the latest advances in the field this full color and highly detailed edition addresses a broad range of radiologic disciplines and provides a strong foundation in the study and practice of radiologic physics imaging radiobiology radiation protection and more Unique learning tools strengthen your understanding of key concepts and prepare you for success on the ARRT certification exam and in clinical practice Broad coverage of radiologic science topics including radiologic physics imaging radiobiology radiation protection and more allows you to use the text over several semesters Highlighted math formulas call attention to mathematical information for special focus Important Concept boxes recap the most important chapter information Colored page tabs for formulas conversion tables abbreviations and other data provide easy access to frequently used information End of chapter questions include definition exercises short answer and calculations to help you review material Key terms and expanded glossary enable you to easily reference and study content Chapter introductions summaries objectives and outlines help you organize and pinpoint the most important information NEW Chapters on digital radiographic technique and digital image display prepare you to use today s technology NEW Streamlined physics and math sections ensure you are prepared to take the ARRT exam and succeed in the clinical setting      *Assessing Middle and High School Mathematics & Science* Sheryn Spencer-Waterman,2013-08-16 For middle and high school teachers of mathematics and science this book is filled with examples of instructional strategies that address students readiness levels interests and learning preferences It shows teachers how to formatively assess their students by addressing differentiated learning targets Included are detailed examples of differentiated formative assessment schedules plus tips on how to collaborate with others to improve assessment processes Teachers will learn how to adjust instruction for the whole class for small groups and for individuals They will also uncover step by step procedures for creating their own lessons infused with opportunities to formatively assess students who participate in differentiated learning activities      **Roentgens, Rads, and Riddles, a Symposium on Supervoltage Radiation Therapy at the Medical Division, Oak Ridge Institute of Nuclear Studies, July 15, 16, 17, and 18, 1956** U.S. Atomic Energy Commission,1959      *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch,1974      *Roentgens, Rads, and Riddles* Milton Friedman,Marshall Brucer,Elizabeth Anderson,1959 The symposium focuses on various aspects of supervoltage as an

improved tool for radiotherapy      **Roentgens, Rads and Riddles** U.S. Atomic Energy Commission,1959 The symposium focuses on various aspects of supervoltage as an improved tool for radiotherapy      **National Library of Medicine Catalog** National Library of Medicine (U.S.),1960      Current Catalog National Library of Medicine (U.S.),1970 Includes subject section name section and 1968 1970 technical reports      **Radiologic Records** Christina Spirko,1960      *Bushong's Radiologic Science for Technologists - E-Book* Stewart C. Bushong,Elizabeth Shields,2025-01-27 Selected for 2025 Doody's Core Titles in Radiologic Technology Develop the skills you need to produce diagnostic quality medical images Bushong's Radiologic Science for Technologists 13th Edition provides a solid foundation in the concepts of medical imaging and digital radiography Featuring hundreds of radiographs and illustrations this comprehensive text helps you learn how to make informed decisions regarding technical factors image quality and radiation safety for both patients and providers With updates reflecting the latest ARRT guidelines including shielding practices and streamlined physics and math sections focused on key concepts this edition equips you with the knowledge needed to succeed on the certification exam and excel in clinical settings NEW Chapters on artificial intelligence and quantum computing help you stay abreast of key technological changes NEW Streamlined physics and math sections focus on the content you need to know to prepare for the ARRT exam while also providing the background you need to perform well in the clinical environment UPDATED Content reflects the latest ARRT guidelines including the latest released shielding guidelines Broad coverage of radiologic science topics includes radiologic physics imaging radiobiology and radiation protection Special topics include mammography fluoroscopy spiral computed tomography and cardiovascular interventional procedures Strong pedagogy including objectives key terms outlines chapter introductions and summaries helps you organize information and ensure that you understand what is most important in every chapter Quick reference information including formulas conversion tables abbreviations and more provides easy access to frequently used information End of chapter questions such as definition exercises short answer and calculations offer valuable review opportunities Key terms are bolded and defined at first mention in the text and are included in an expanded glossary to ensure you understand key terms as they are used in discussions of important concepts Math formulas are highlighted in special color boxes for quick reference Important concepts boxes are denoted with a penguin icon Evolve companion website provides answers to challenge questions answers to workbook questions an image collection and review questions to reinforce your understanding of key content      *Computed Tomography* Thorsten M. Buzug,2008-05-20 This volume provides an overview of X ray technology and the historical development of modern CT systems The main focus of the book is a detailed derivation of reconstruction algorithms in 2D and modern 3D cone beam systems A thorough analysis of CT artifacts and a discussion of practical issues such as dose considerations give further insight into current CT systems Although written mainly for graduate students practitioners will also benefit from this book      *British Journal of Radiology* ,1924      **Mathematical Problem Posing** Florence Mihaela Singer,Nerida F. Ellerton,Jinfa Cai,2015-06-12 The

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

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