

[LD 1013]

OCTOBER 2013

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 : 3 hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on :

(2X20=40)

1. Discuss the assumptions of Karl Pearson correlation method?
2. Discuss on different types of distribution

II. Write notes on:

(10X6=60)

1. Oscillations and Waves
2. Prepare the decay chart for Iridium-192 teletherapy isotope for the period of one half- life.
3. Presentation of Data
4. Regression
5. Statistical accuracy in double isotope
6. Newton Raphson Method
7. Testing of Hypothesis
8. Probability Sampling
9. MATLAB
10. Confidence interval

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