

QP CODE: 201018

Reg.No.....

Second Year B.Sc MRT Degree Examinations March 2018

RADIATION PHYSICS I

Time: 3 Hours

Total Marks:100

- **Answer all questions**

Essays:

(3x10=30)

1. Describe the production and properties of X-rays.
2. Explain the developing and fixing of X-ray films.
3. Describe the generation of CT in detail

Short notes:

(8x5=40)

4. Heal effect
5. HVL
6. Mammography
7. Compare diagnostic X-ray tubes and therapy X-ray tubes
8. Cine radiography
9. Image intensifier
10. Digital radiography
11. QA in radiography

Answer briefly:

(10x3=30)

12. Photo electric effect
13. Xero radiography
14. CT tubes
15. Grids
16. Filters
17. Radioactivity
18. Auto transformer
19. TLD
20. Semiconductor
21. Cross section of X-ray film
