

NAV-5122

Seat No.

M. D. (Branch - XV) Examination

March / April - 2017

Radiotherapy: Paper - I

(Radio Physics & Applied Basic Sciences)

Time: 3 Hours] [Total Marks: 100 **Instructions:** Write legibly, no marks are given for unreadable material. (2) Figures to the right indicate full marks. (3) Answer to the point. (4) All questions carry equal marks. 1 How X-rays are produced? Discuss its therapeutic uses 20 in medical science. $\mathbf{2}$ How photons interact with matter? Explain with suitable 20 examples. Discuss Radio therapeutic uses of Sealed radioisotopes. 20 3 Attempt both (a) and (b): 20 4 Dose Response Curve (a) (b) Attenuation Coefficients. Write short notes on any four: 20 5 Isodose Curve (a) (b) Maximum Permissible Dose Beam shaping devices (c) (d) Specific activity Thermo luminescent Dosimeter. (e)

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