



RAJ-5125

Seat No. _____

M. D. (Branch-XV) Examination

March / April - 2019

Radiotherapy : Paper-IV

(Modern Trends & Recent Advances)

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (i) Write legibly, no marks are given for unreadable material.
(ii) Figures to the right indicate full marks.
(iii) Answer to the point.
(iv) All questions carry equal marks.

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| 1 | Compare X-Knife and Gamma knife. Discuss its usefulness in Radiotherapy. | 25 |
| 2 | Discuss justification of Monoclonal antibodies in cancer therapy. Enumerate various monoclonal antibodies and malignancies treated by them. | 25 |
| 3 | Discuss rationale and clinical application of tomotherapy in detail. | 20 |
| 4 | Attempt both (a) and (b)
(a) Application of PET-CT in Radiotherapy planning
(b) Motion management in Radiotherapy | 20 |
| 5 | Write short notes on :
(a) Imageguided Vs. Imagebased Radiotherapy.
(b) NCCN categories of consensus for treatment guidelines.
(c) Inverse and forward planning in Radiotherapy.
(d) EPID. | 20 |