



NBA-5125

Seat No. _____

M. D. (Branch - XV) Examination

March / April - 2017

Radiotherapy : Paper - IV

(Modern Trends & Recent Advances)

Time : **3** Hours]

[Total Marks : **100**

- Instructions :**
- (1) 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 "Biological Targeted Therapy" Necessity, compulsion or compromise ? Discuss. **20**
- 2 What are OER, LET and RBE ? Explain their correlation. **20**
- 3 Has Multi modality fusion technology revolutionized radiotherapy planning and treatment ? Discuss. **20**
- 4 Attempt both (a) and (b) : **20**
 - (a) Diagnostic procedures in Hemato-Oncology.
 - (b) Cyber Knife.
- 5 Write short notes on any **four** : **20**
 - (a) Radiation Disaster
 - (b) Tomosynthesis
 - (c) Advantages and limitations of DVH.
 - (d) Respiratory gating system
 - (e) Biological effective dose.