

**QP Code:101514**

**Reg.No.:.....**

**D.M. (Medical Oncology) Degree Examinations July 2018**

**Paper I – Basic Science in Medical Oncology**

**Time: 3 hrs**

**Max marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essay:**

**(20)**

1. Discuss about next generation sequencing (NGS) and its applications in oncology.

**Short essays:**

**(8x10=80)**

2. Molecular changes in adeno-carcinoma of stomach
3. Discuss the evidence, benefits and harms of population based screening for breast cancer
4. Pathophysiology of myeloma bone disease.
5. Role of radio frequency ablation (RFA) in oncology
6. Epigenetics in cancer
7. Sample size estimation in clinical trials
8. Area under curve
9. Accelerated breast irradiation

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