

**QP Code:101514**

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

**D.M. (Medical Oncology) Degree Examinations - July 2015**

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

**Time: 3 hrs**

**Max marks:100**

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

**Essay:**

**(20)**

1. Discuss the PI3K/mTOR pathway, including its role in the pathogenesis of human cancers and inhibition as a therapeutic strategy.

**Short essays:**

**(8x10=80)**

2. Cardiac complications of radiation
3. Multi drug resistance in oncology
4. FDG-PET and its impact on therapeutic decisions in solid tumors
5. Intent to treat analysis
6. Molecular predictors of drug toxicities with at least two relevant examples
7. Newer techniques in radiotherapy
8. Forrest plots
9. Apoptosis

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