

QP Code:101516

Reg.No.:.....

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

**Paper I – Basic Science as Applied to Pediatric Oncology**

**Time: 3 hrs**

**Max marks: 100**

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

**Essay: (20)**

1. Discuss the hallmarks of cancer and therapeutic implications of each hallmark.

**Short essays: (8x10=80)**

2. Phase-3 clinical trial designs and its role in pediatric research
3. Haploidentical stem cell transplantation and its relevance to India
4. Radiosensitization and its applications
5. Proteasome inhibition
6. Metronomic chemotherapy and its role in pediatric cancers
7. Asparaginase:- Types, role, toxicity and monitoring in pediatric cancers.
8. FDG-PET: Role in staging of pediatric cancers
9. Spectral karyotyping

\*\*\*\*\*