

**Q P Code: 101516**

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

**D.M. (Pediatric Oncology) Degree Examinations July 2019**

**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. Describe the molecular genetics in evaluation of pediatric solid tumors.

**Short essays:**

**(8x10=80)**

2. Drug resistance
3. Epidemiology of childhood cancers
4. Molecular events involved in apoptosis
5. Goldie – Coldman hypothesis
6. Interaction between nutrition and cancer
7. Molecular subtypes of medulloblastoma
8. MLL gene
9. Tyrosine kinase inhibitors

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