

**QP Code:104516**

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

**D.M. (Pediatric Oncology) Degree Regular/Supplementary  
Examinations September 2020**

**Paper IV – Recent Advances in Pediatric Oncology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. Describe how integrating cytogenetics and molecular profiling in pediatric acute myeloid leukemia will help in the optimal management of pediatric AML in 2019.

**Short essays:**

**(8x10=80)**

2. Oncogenic driver genes in neuroblastoma.
3. Discuss role of brentuximab in the treatment of Hodgkin Lymphoma.
4. Discuss present and future role of CAR-T Cell therapies in pediatric oncology.
5. Discuss proton beam radiation therapy in pediatric oncology.
6. Discuss secondary malignancies in childhood cancer survivors.
7. Discuss new mutations and targeted therapies in langerhans cell histiocytosis.
8. Discuss newer developments in juvenile myelomonocytic leukemia.
9. Discuss role of therapeutic drug monitoring in pediatric oncology.

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