

QP Code:104516

Reg. No.:.....

**D.M. (Pediatric Oncology) Degree Regular/Supplementary
Examinations November 2023**

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. Elaborate on the immunotherapeutic strategies and their current status in the management of childhood Acute Lymphoblastic Leukemia (ALL).

Short essays: (8x10=80)

2. Discuss newer diagnostic and therapeutic approaches in systemic fungal infections in pediatric oncology.
3. Treatment of hemophagocytic lymphohistiocytosis (HLH). Give details about newer treatments.
4. Discuss the current role and controversies of high dose chemotherapy and autologous stem cell rescue in management of high risk pediatric solid tumors.
5. Give an overview on the current role of cytogenetics / molecular genetics in risk stratification of neuroblastoma.
6. Discuss checkpoint inhibitors and their role in pediatric cancers.
7. Discuss the role of minimal residual disease estimation in the management of childhood acute myeloid leukemia
8. Write short notes:
 - a) WNT Pathway medulloblastoma; diagnosis, prognosis and management.
 - b) Role of BRAF/MEK inhibitors in treatment of refractory or recurrent low grade gliomas
9. Discuss the current status of PET–CT in management of pediatric cancers.
