

Q P Code: 101516

Reg. No.:.....

**D.M. (Pediatric Oncology) Degree Regular/Supplementary
Examinations August 2022**

Paper I – Basic Science as Applied to 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 the mechanism of action of commonly used chemotherapeutic agents in pediatric malignancies and the mechanism of their toxicities

Short essays: (8x10=80)

2. Methods of randomization for a phase III trial
3. Beckwith Weidemann syndrome
4. Genetics of retinoblastoma
5. Importance of childhood cancer survivorship program
6. Mechanism of proton beam therapy
7. Targeting tumor angiogenesis
8. Comparative genomic hybridization
9. Alpha Feto-Protein (AFP)
