

**QP Code:104516**

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

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

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

**Time: 3 hrs**

**Max marks:100**

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

**Essay: (20)**

1. Next generation sequencing in pediatric oncology: implications on diagnosis and management

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

2. Expandable bone prosthesis in treatment of pediatric bone tumors
3. Role of MIBG therapy in neuroblastoma
4. Compare the advantages and disadvantages of PCR versus FISH analysis of N-MYC amplification in neuroblastoma
5. Chimeric antigen receptor T-cell therapy
6. Principles and examples of de-escalation of treatment in pediatric malignancies
7. Image modulated radio therapy (IMRT)
8. Societal reintegration of a child post treatment of cancer
9. Minimal residual disease in acute lymphoblastic leukemia

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