

QP Code:

Reg.No.:.....

**D.M. (Paediatric Oncology) Degree Examinations
(Model Question Paper)**

Paper I – Basic Science as Applied to Paediatric Oncology

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Discuss the application of immuno histochemistry in paediatric solid tumours

Short essays:

(8x10=80)

2. Neurofibromatosis – type I gene
3. Dendritic cells
4. Immune surveillance
5. Programmed cell death
6. Radiation interaction with chemotherapeutic agents
7. Genomic imprinting
8. Single nucleotide polymorphism
9. Hematopoietic stem cells

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Paper II – Hematological Malignancies & Supportive care

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Describe the various chromosomal abnormalities and its prognostic significance in acute lymphoblastic leukaemia in children

Short essays:

(8x10=80)

2. Minimal residual disease
3. Drug resistance mechanism in acute myeloid leukaemia
4. Juvenile myelomonocytic leukaemia
5. Chemotherapy of Hodgkin's lymphoma
6. Pathology of non Hodgkin lymphoma
7. Management of superior mediastinal syndrome
8. Aetiology and pathophysiology of cancer related anaemia in children
9. Describe platelet refractoriness and alloimmunisation

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Paper III – Solid Tumors, Late effects and Palliative care

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Describe in detail the prognostic factors of neuroblastoma

Short essays:

(8x10=80)

2. Ameloblastoma
3. Sacrococcygeal teratoma
4. Infantile fibrosarcoma
5. Radiotherapy in Ewing's sarcoma
6. Prognostic factors in osteosarcoma
7. Screening for Wilm's tumor
8. Auditory complications of cancer treatment
9. Management of group E retionblastoma

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Paper IV – Recent Advances in Medical Oncology & Palliative Care

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Discuss the recent trends in the management of acute promyelocytic leukaemia in children

Short essays:

(8x10=80)

2. Rasburicase
3. Platelet growth factors
4. Role of retinoids in paediatric malignancies
5. Partial nephrectomy in Wilm's tumor
6. Tyrosin kinase inhibitors in the management of Ph+Acute lymphoblastic leukaemia in children
7. Importance of fusion gene in the diagnosis of childhood tumors
8. MYCN amplification in neuroblastoma
9. Adjuvant non drug therapies for the management of pain in children
