

QP Code:

Reg.No.:.....

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

Paper I – Basic Science in Medical Oncology

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Describe cancer cell kinetics and principles of chemotherapy in detail

Short essays:

(8x10=80)

2. Molecular events in apoptosis.
3. Hereditary cancers
4. Meta analysis
5. Polymerase chain reaction
6. Growth factors
7. Pulmonary toxicity due to anti cancer agents
8. IMRT
9. Chimerism

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Paper II – Medical Oncology – 1

(Breast, Gynaec, Genito urinary, Gastrointestinal and Pediatric oncology)

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Outline the WHO classification of ovarian tumours. Discuss the role of neo-adjuvant and adjuvant chemo therapy in epithelial tumours of ovary.

Short essays:

(8x10=80)

2. Adjuvant treatment of colon cancer
3. Neoplastic meningitis
4. Screening for Ca cervix
5. Wilm's tumour
6. Epidemiology of stomach cancer
7. Seminoma of testes
8. Management of hormone refractory prostate cancer
9. Gestational trophoblastic disease

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Paper III – Medical Oncology- 2

(Head & Neck, Thorax, Bone & soft tissue, skin, Hemato oncology, Miscellaneous)

Time: 3 hrs

Max marks:100

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

Essays:

(20)

1. Describe in brief the unique pathophysiology of acute promyelocytic leukemia (APML). Discuss the current standard approach and treatment of APML.

Short essays:

(8x10=80)

2. Unknown primary tumour.
3. Tumour lysis syndrome
4. Nodular lymphocyte predominant Hodgkin's lymphoma
5. Diagnostic criteria for multiple myeloma
6. Imatinib resistance in CML
7. Ewing's sarcoma
8. Role of chemotherapy in head and neck cancer
9. Anaplastic large cell lymphoma

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**D.M. (Medical Oncology) Degree Examinations
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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 indications, contra indications, methodology and complications of allogenic bone marrow transplantation

Short essays:

(8x10=80)

2. Nanotechnology in oncology.
3. Differentiating agents in the treatment of cancer
4. Role of PET scan in the management of lymphomas
5. Opioids in pain management
6. Proteasome inhibitors
7. Total parenteral nutrition
8. Metronomic chemotherapy
9. Cancer cachexia
