

April-2001

[KD 020]

Sub. Code : 1304

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch VII — Medical Oncology

(Revised Regulations)

Paper IV — RECENT ADVANCES IN MEDICAL
ONCOLOGY

Time : Three hours (Maximum : 100 marks)

Answer ALL questions

1. Discuss the role of biological response modifiers in management of cancer. (25)
2. Discuss the various aspects of high dose chemotherapy in cancer. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Topoisomerase inhibitors.
 - (b) Hyperthermia.
 - (c) Late effects of Cancer chemotherapy
 - (d) All transretinoic acid (ATRA).
 - (e) Gene therapy.

November-2001

[KE 020]

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss critically role of chemotherapy in the treatment of anal canal cancer. (25)
 2. Discuss management of standard prognosis AML. (25)
 3. Short notes on : (5 × 10 = 50)
 - (a) STI-571 (Tyrosine Kinase Inhibitor)
 - (b) Gene therapy in gliomas
 - (c) Thalidomide
 - (d) Hormone replacement therapy
 - (e) Antibody targeted therapy in nonHodgkins Lymphoma.
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March-2002

[KG 020]

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss outpatients management of febrile neutropenia following cancer chemotherapy. (25)
2. Discuss critically role of concurrent chemoradiotherapy in head and neck Cancer. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Arsenic trioxide
 - (b) Mycophenolate Mofetil (MMF)
 - (c) Advances in the chemotherapy of pancreatic cancer
 - (d) Mixed chimerism in marrow transplants
 - (e) Multiagent antifolate in non small cell lung cancer.

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Paper IV — RECENT ADVANCES IN MEDICAL
ONCOLOGY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

A. Essay : (2 × 15 = 30)

(1) Describe briefly hierarchy of haemopoiesis.
How stem cells play a part in tissue repair?

(2) Discuss critically the role of concurrent
chemoradiotherapy in the management of anal canal
cancer.

B. Short notes. (10 × 5 = 50)

(1) Target based therapy for head and neck
cancer.

(2) Immunotherapy for the treatment of
malignant gliomas.

- (3) Role of monoclonal antibodies in lymphomas.
- (4) Bortezomib.
- (5) Treatment of stem cell transplantation in the
childhood ALL (acute lymphoblastic leukemia).
- (6) Flow Cytometry.
- (7) Treatment of Secondary leukemia.
- (8) Chemotherapy for Medulloblastoma.
- (9) Hormone therapy for metastatic breast
cancer
- (10) Gene therapy for malignant melanoma.

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**Paper IV — RECENT ADVANCES IN MEDICAL
ONCOLOGY**

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

I. Essay : (2 × 15 = 30)

(1) Describe critically the management of a case of 30 year old male recently diagnosed to have chronic phase chronic myeloid leukemia.

(2) Discuss critically the role of neoadjuvant chemotherapy in the management of locally advanced breast cancer.

II. Short notes : (10 × 5 = 50)

(a) Monoclonal antibodies in the treatment of leukemias

(b) Mycophenolate mofetil

(c) Treatment of Metastatic Neuroblastoma

(d) Large cell anaplastic lymphoma

(e) Guidelines for the treatment of relapsed ovarian cancer

(f) Role of chemotherapy for extremity soft tissue sarcomas among adults

(g) Rituximab

(h) Treatment of metastatic choriocarcinoma

(i) Genetic of retinoblastoma

(j) Role of adjuvant chemotherapy for gastric cancer.