

February-2005

[KM 020]

Sub. Code : 1304

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

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

Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Discuss the role of autologous stem cell transplantation in present practice of oncology.

(2) Discuss the role and recent trends of targeted therapy.

II. Write short notes on : (10 × 5 = 50)

(a) Cancer vaccines

(b) Chemoprevention

(c) Role of laparoscopy in diagnosis and treatment

(d) Chemotherapy of prostate cancer

(e) Biphosphonates

(f) Meta-analysis

(g) Aromatase inhibitors

(h) Epidemiology of cancer in India

(i) Role of erythropoietin in cancer anaemia

(j) Cancer in Immuno-suppressed.

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M.C.Q. : Twenty minutes

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Answer ALL questions.

I. Essay : (2 × 15 = 30)

(1) Describe critically the management of Hodgkins disease which relapsed after standard ABVD.

(2) Discuss the Neoadjuvant treatment of cancer of rectum.

II. Short Notes: (10 × 5 = 50)

(a) Hormonal treatment of breast cancer in premenopausal female.

(b) Angiogenesis inhibitors.

(c) Cyto protection during chemotherapy

(d) Chemo prevention of cancer

(e) Chemotherapy for mesothelioma

(f) Imatinib mesylate

(g) Treatment of gastric lymphoma

(h) Immuno histo chemistry for small round cell tumors.

(i) Radio immuno pharmaceuticals in hematologic malignancies.

(j) Somatostatin.

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Theory : Two hours and Theory : 80 marks
forty minutes

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

Answer ALL questions.

I. Essay :

(1) Critically evaluate the role of sentinel lymph node biopsy, along with the various techniques used, in the management of tumours at different sites. (20)

(2) Discuss the etiopathogenesis of deep vein thrombosis in cancer. Suggest an investigative work up for such patients. Outline a management approach. (15)

(3) Discuss Neoplastic angiogenesis and antiangiogenesis therapy. (15)

II. Short notes : (6 × 5 = 30)

(a) Chemoradiotherapy in the management of carcinoma of the anal canal

(b) Management of metastatic endometrial stromal sarcoma.

(c) Cyclo-oxygenase-2 (COX2) inhibitors in prevention of cancer.

(d) Temozolomide for metastatic brain tumours.

(e) Magnetic resonance spectroscopy.

(f) Suicide gene therapy.

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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

Answer ALL questions.

I. Essay :

1. Critically evaluate Breast conservative surgery vis-a-vis radical surgery in the management of Breast cancer. (20)

2. Discuss immuno surveillance mechanisms and the different immunotherapeutic strategies. (15)

3. Discuss the plasma - cell - stromal interactions in multiple myeloma. Discuss various therapeutic strategies in the treatment of myeloma. (15)

II. Short notes : (6 × 5 = 30)

1. Chemoradiotherapy in the management of carcinoma of cervix.

2. Metastatic renal cell carcinoma

3. Prevention of oral cancer.

4. Dendritic cell vaccines

5. Carcinomatous meningitis.

6. LASER in the management of cancer of the upper aerodigestive tract.

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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

Answer ALL questions.

Illustrate your answers with appropriate diagrams and
tables.

I. Essays :

1. Discuss the phases of clinical trials in cancer.
Enumerate the pros and cons of using Indian patients in
multinational clinical trials. (20)

2. Discuss the role of antifungal drugs in the
management of febrile neutropenia in the remission
induction therapy of acute leukemias (15)

3. 'Cancer is a multistep process' Explain this with
example of head and neck cancer. What could be
possible interventions at each step. (15)

II. Short Notes : (6 × 5 = 30)

(a) Micro arrays in breast cancer

(b) Immunoconjugates for cancer therapy

(c) Compare and contrast : 5 Fluorouracil and
Capecitabine

(d) Compare and contrast : liposomal and
non-liposomal doxorubicin

(e) Post-transfusion graft versus host disease

(f) Pulmonary blastoma

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Branch VII — Medical Oncology

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

Q.P. Code : 161304

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay :

1. Discuss the pathophysiology of pain and the advances in the management of acute pain in subjects with cancer. (20)

2. Discuss the status of geriatric assessment in the elderly and briefly elaborate on the treatment of older subjects with colorectal cancer. (20)

II. Short notes : (10 × 6 = 60)

(1) Extreme drug resistance assay

(2) Vulnerable population in clinical research

(3) Bexarotene

(4) Transfusion related acute lung injury

(5) Molecular imaging

(6) Prognostic factors in myelodysplastic syndrome

(7) Differentiating agents

(8) Bortezomib

(9) Preventable cancer

(10) Neuroendocrine tumours.

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Branch VII – Medical Oncology

Paper IV– RECENT ADVANCES IN MEDICAL ONCOLOGY

Q.P. Code: 161304

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40 Marks

1. Discuss the pathophysiology of hemopoiesis and the current status of colony stimulating factor in the management of infectious complications in subjects with febrile neutropenia following myelosuppressive chemotherapy.
2. Elaborate the role of molecular targetted therapy in the treatment of squamous cell cancer of the head and neck.

II. Write short notes on:

10 x 6 = 60 Marks

1. Directed donation.
 2. Ostroarticular allograft.
 3. Thrombopoietin.
 4. Mammalian target of rapamycin inhibitors (MTOR).
 5. Graft versus myeloma effect.
 6. Proteasome Inhibitor.
 7. Thallium – 201 (Imaging).
 8. Terminally ill Children – issue of support.
 9. Neurocognitive sequelae of children treated with radiation.
 10. Central venous catheter infection.
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