

April-2001

[KD 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION

(Higher Specialities)

Branch VII — Medical Oncology

(Revised Regulations)

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Enumerate and discuss the preventable factors in etiopathogenesis of cancer. (25)
2. How would you manage a "Febrile Neutropenic" patient? (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Adjuvant chemotherapy of osteo sarcoma.
 - (b) Hospice.
 - (c) Antifungal drugs.
 - (d) Cancer screening.
 - (e) Myelodysplastic syndrome.

November-2001

[KE 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

Time : Three hours

Maximum 100 marks

Answer ALL questions

1. Discuss briefly the guidelines for evaluation and treatment of distress in patients with cancer. (25)
 2. Write briefly on second line chemotherapy for epithelial ovarian cancer. (25)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Role of high fibre–low fat diet in prevention of colon cancer
 - (b) Anorexia–cachexia in cancer patients
 - (c) National Cancer Control Programme
 - (d) Differential diagnosis of anterior mediastinal mass in a 14 year old girl
 - (e) Treatment of rhabdomyosarcoma of orbit in a 6 year old child.
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March-2002

[KG 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

**Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION**

Time : Three hours

-Maximum : 100 marks

Answer ALL questions.

1. Discuss briefly the methodology, guidelines to study the problem of high incidence of stomach cancer in the population of Chennai city. (25)
2. Describe prognostic factors in non Hodgkins lymphomas and role of salvage chemotherapy for high grade lymphomas. (25)
3. Short notes on : (5 × 10 = 50)
 - (a) Mediastinal germ cell tumours
 - (b) EGFR in head and neck cancer
 - (c) The role of Biphosphonates in multiple myeloma
 - (d) Home care for patients with advanced cancer
 - (e) Evaluation of palliative endpoints in oncology clinical trials

[KK 019]

Sub. Code : 1303

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(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

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

Answer ALL questions.

SECTION A

A. Essay : (2 × 15 = 30)

(1) Discuss briefly pathology and management
of childhood brain tumours. (15)

(2) Discuss critically the role of Chemotherapy
in the management of advanced non small cell lung
cancer. (15)

SECTION B

B. Short notes : (10 × 5 = 50)

- (1) Epidemiology of stomach cancer in India.
- (2) Treatment of fatigue in cancer patients.
- (3) Treatment of intermediate risk acute myeloblastic leukemia (AML) in a 25 year old male.
- (4) Neoadjuvant Chemotherapy in Urinary bladder cancer.
- (5) Treatment of metastatic colon cancer in a 45 year old male.
- (6) Differential diagnosis of round cell tumours in children.
- (7) Epidermal Growth Factor.
- (8) Role of Colony stimulating factors in elderly Cancer patients.
- (9) Prevention of Lung cancer
- (10) Stem cell transplantation for patients with auto-immune diseases.

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Branch VII — Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

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 : (2 × 15 = 30)

(1) Discuss briefly management of a case of thirty five year old male, recently diagnosed to have multiple myeloma with renal failure.

(2) Discuss the clinical presentation, pathology staging and treatment option depending on risk stratification of Neuroblastoma.

II. Short notes : (10 × 5 = 50)

- (a) Prognostic factors for childhood ALL.
 - (b) Hypercalcemia.
 - (c) Management of metastatic renal cell cancer.
 - (d) Treatment of relapsed/refractory non-seminomatous germ cell tumour in an adult.
 - (e) Pulmonary complications in bone marrow transplant recipients.
 - (f) Prognostic factors in myelodysplastic syndrome.
 - (g) Complications of central venous catheterization.
 - (h) Epidemiology of Gall Bladder cancer.
 - (i) Management of undifferentiated nasopharyngeal cancer in a 62 year old male with lymph node metastasis (T2N1M0).
 - (j) Prostate Specific Antigen (PSA).
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II. Write short notes on : (10 × 5 = 50)

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Branch VII — Medical Oncology

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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 : (2 × 15 = 30)

(1) Discuss the management of a middle aged male presenting with left supraclavicular lymph node enlargement, with a histology of "poorly differentiated malignancy".

(2) Discuss the role of chemotherapy in head and neck cancers.

- (a) Leptomeningeal carcinomatosis.
- (b) Paraneoplastic syndromes.
- (c) Management of hepatocellular carcinoma.
- (d) Treatment of relapsed ovarian cancer.
- (e) End points of cancer treatment.
- (f) Treatment of Wilms' tumour.
- (g) Primary CNS lymphoma.
- (h) Prolymphocytic leukaemia.
- (i) Staging and treatment of retinoblastoma.
- (j) Acute promyelocytic leukaemia.

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Branch VII — Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

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 : (2 × 15 = 30)

(1) Discuss the management of mediastinal lymphoma in a 25 year old male.

(2) Discuss clinical presentations, diagnostic approach, staging and treatment options in the management of Wilm's Tumor.

II. Short notes : (10 × 5 = 50)

(a) Staging systems of chronic myeloid Leukemia.

(b) SIADH.

(c) Treatment of low risk Gestational trophoblastic disease.

(d) Relapsed epithelial cancers of ovary.

(e) GVHD.

(f) WHO classification of Myelodysplastic syndrome.

(g) Complications of Parenteral Nutrition.

(h) Epidemiology of cervical cancer.

(i) β HCG.

(j) Treatment approach to Hormone Refractory Prostate Cancer.

[KP 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII – Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

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 :

1. Discuss the therapeutic options in metastases confined to the liver. (20)

2. A young woman is desirous of knowing her risk for familial breast cancer. Suggest an algorithm, based on available evidence, of your approach to the request. Assuming that the result is 'positive', analyse the impact of such knowledge on the woman's. (15)

3. Discuss the staging classification and management of non seminomatous germ cell cancer of the testis. (15)

II. Short notes : (6 × 5 = 30)

(a) Management of a malignant thymoma with invasion of great vessels in a 72-year-old man.

(b) Colposcopy in the evaluation and management of cervical intraepithelial neoplasia.

(c) Approach to an asymptomatic woman with elevation Ca-125 whose CT Scan is negative, after successful treatment for stage 3 ovarian cancer.

(d) Place of photodynamic therapy in aerodigestive tract tumours

(e) Non-steroidal selective oestrogen receptor blockers.

(f) Post-laryngectomy voice rehabilitation.

[KQ 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

**Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION**

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. Discuss therapeutic options in CNS metastatic disease. (20)

2. Discuss staging classification and management of germ cell neoplasms of the ovary. (15)

3. Discuss the major syndromes of genetic cancer predisposition. (15)

II. Short notes : (6 × 5 = 30)

1. Management of pleural mesothelioma in a 40 year old man.

2. Bronchoscopy in the evaluation and management of early bronchogenic carcinoma.

3. Evaluation of metastasis of unknown origin.

4. Radio frequency ablation

5. Bisphosphonates

6. After completion of therapy clinics.

[KR 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

**Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION**

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. Essay :

**1. Build a decision tree for the evaluation of a pleural
effusion in a woman aged 60 years. (20)**

**2. Discuss the relationship between the various
pathological prognostic factors in stage 1 and 2
endometrial carcinoma and their impact on treatment
decisions. (15)**

**3. Discuss the preparatory regimens for a
hematopoietic stem cell transplants along with their
merits and demerits. (15)**

II. Short Notes :

(6 × 5 = 30)

(a) Onconeural antigens and antibodies.

(b) Lenalidomide.

(c) Palonosetron.

(d) Pegylated G-CSF.

(e) Nanoparticle Paclitaxel.

(f) Retroperitoneal lymph node dissection.

[KS 019]

Sub. Code : 1303

D.M. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VII — Medical Oncology

Paper III — MEDICAL ONCOLOGY INCLUDING
THERAPY, EPIDEMIOLOGY AND REHABILITATION

Q.P. Code : 161303

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

I. Essay :

1. Discuss the Therapeutic options for Stage III_B. non small cell lung cancer. (20)

2. Briefly discuss the scheme for the Diagnosis and Management of Poorly differentiated neoplasms of unknown primary site. (20)

II. Short notes : (10 × 6 = 60)

(1) Endometroid borderline tumours of the ovary.

(2) Spinal axis tumours.

(3) Sacro coccyseal teratoma.

- (4) Extragenital germ cell cancer syndrome.
- (5) Primary vascular lymphoma.
- (6) Gastro intestinal stromal tumour.
- (7) Treatment of fatigue in cancer patients.
- (8) Chemotherapy for medullo blastoma.
- (9) Prognostic factors in chronic lymphocytic leukemia.
- (10) Management of metastatic renal cell cancer.

August 2008

[KT 019]

Sub. Code: 1303

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VII – Medical Oncology

**Paper III– MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION**

Q.P. Code: 161303

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Discuss the staging of renal cell carcinoma (TNM) and elaborate on the management of metastatic renal cell cancer.
2. Briefly discuss the diagnosis, staging and management of retinoblastoma.

II. Write short notes on:

10 x 6 = 60

1. Prognostic factor in epithelial ovarian cancer.
2. Pinealoblastoma .
3. Esthesioneuroblastoma.
4. TNM stage of RMS.
5. Chordoma.
6. Neoplastic meningitis
7. GIST
8. All trans retinoic acid syndrome.
9. Adaptive immunity
10. Hypercalcemia.

February 2009

[KU 019]

Sub. Code: 1303

D.M. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VII – Medical Oncology

**Paper III– MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION**

Q.P. Code: 161303

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. A 58 year old male presents with fatigue. His blood counts are : HB 11 G/dl, WBC- 39000/cmm differential – neutrophills 10%, lymphocytes – 87%, monocytes 3%, Platelets – 230,000/cmm. How will you investigate further? Briefly discuss management.
2. Discuss treatment of stage IB cervix cancer in a 25 year old, unmarried lady.

II. Write short notes on:

10 x 6 = 60

1. Metaanalysis.
2. Cardiac tumours.
3. Epidemiology of cancer esophagus.
4. WHO Classification for myelodysplatic syndrome.
5. Treatment of AML (acute myeloid leukemia) in a 70 year old man.
6. Chemotherapy treatment for non metastatic osteosarcoma.
7. Treatment of stage I breast cancer in a 37 year old lady.
8. Germ cell tumours of testis : Investigations and their interpretation.
9. NK cell (Natural killer cell).
10. Breast cancer stem cell.

August 2009

[KV 019]

Sub. Code: 1303

D.M. DEGREE EXAMINATION

(Super Specialities)

(Revised Regulations)

Branch VII – Medical Oncology

**Paper III– MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION**

Q.P. Code: 161303

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

2 x 20 = 40

1. Discuss the role of chemo radiation in squamous cell carcinoma of head and neck cancer. Write briefly on functional organ preservation.
2. Write briefly on the staging of breast cancer and role of adjuvant therapy for early breast cancer.

II. Write short notes on:

10 x 6 = 60

1. Current treatment options for refractory low grade NHL.
2. Imatinib resistance in CML.
3. Management of second trimester pregnant ALL patient.
4. Prostate cancer staging and management.
5. Pancreatic cancer – management with special reference to targeted therapies
6. Systemic inflammatory response syndrome (SIRS).
7. Terminally ill geriatric lung cancer patient.
8. Cancer screening - special reference to carcinoma cervix in India.
9. Cancer cachexia.
10. Retinoblastoma.

August 2011

[KZ 019]

Sub. Code: 1303

**DOCTORATE OF MEDICINE (D.M.) DEGREE EXAMINATION
(SUPER SPECIALITIES)**

BRANCH VII – MEDICAL ONCOLOGY

**MEDICAL ONCOLOGY INCLUDING THERAPY, EPIDEMIOLOGY
AND REHABILITATION**

Q.P. Code: 161303

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

1. Describe the side effects of treatment and Rehabilitation after treatment of head and neck cancer.
2. Management of invasive bladder cancer.

11	35	15
11	35	15

II. Write notes on :

1. Recurrent ovarian cancer.
2. Radioiodine therapy in thyroid carcinoma.
3. Somatostatin and its analogues.
4. Limb sparing surgery.
5. High dose methotrexate.
6. Adjuvant trastuzumab.
7. Management of drug resistant GTD.
8. Prognostic factors in epithelial carcinoma.
9. Xerostomia.
10. Analytical studies.

4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7
4	10	7

[LB 019]

AUGUST 2012

Sub. Code: 1303

D.M – MEDICAL ONCOLOGY

**Paper – III MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION**

Q.P. Code: 161303

**Time: 3 hours
(180 Min)**

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. Describe in brief the unique pathophysiology of Acute Promyelocytic Leukemia (APML). Discuss the current standard approach and treatment of APML. | 16 | 35 | 15 |
| 2. A 30 year old Gentleman presents with a bulky anterior Mediastinal mass, biopsy of which is revealed as Poorly Differentiated Malignant Tumour. Discuss in detail your further approach and management of this patient. | 16 | 35 | 15 |

II. Write notes on:

- | | | | |
|--|---|----|---|
| 1. Intraperitoneal chemotherapy in Epithelial Ovarian Cancer . | 4 | 10 | 7 |
| 2. Status of adjuvant chemotherapy in Soft Tissue Sarcomas. | 4 | 10 | 7 |
| 3. Approach to leptomeningeal metastases in Carcinoma Breast. | 4 | 10 | 7 |
| 4. Comprehensive approach to high risk Neuroblastoma. | 4 | 10 | 7 |
| 5. Role and Evidence of Escalated BEACOPP in Hodgkins Lymphoma. | 4 | 10 | 7 |
| 6. Management of Stage I Seminoma Testes. | 4 | 10 | 7 |
| 7. Relevance of molecular monitoring in Chronic Myeloid Leukemia. | 4 | 10 | 7 |
| 8. Clinical Indications and Toxicity of Pegylated G-CSF. | 4 | 10 | 7 |
| 9. Significance of newer Staging in Lung Cancer. | 4 | 10 | 7 |
| 10. Current role of Allogenic Stem Cell Transplant in Adult Acute Leukemias. | 4 | 10 | 7 |

(LD 019)

AUGUST 2013

Sub. Code:1303

D.M. – MEDICAL ONCOLOGY
Paper – III MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION
Q.P.Code: 161303

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss in detail the Management of Non-seminomatous germ cell tumour of the testis.
2. Describe the side effects of treatment and Rehabilitation after Treatment of muscle invasive bladder cancer.

II. Write notes on:

(10X7=70)

1. Meta-analysis and its uses in oncology.
2. Management of stage IIIB cervix cancer.
3. Incidence rate versus prevalence rate; crude incidence rate versus age adjusted rate versus truncated rate.
4. Indications and contraindications of Neo-adjuvant chemotherapy followed by limb salvage surgery in osteosarcoma.
5. Phase 1 clinical trial requirements.
6. Treatment of nausea and vomiting in a terminally ill patient.
7. Principles in designing cancer prevention clinical trials.
8. Management of anal cancer in a 40 year old female.
9. Indications for bone marrow transplant in oncological practice.
10. Dosage, indications and contraindications of Bendamustine.

[LF 019]

AUGUST 2014

Sub. Code: 1303

D.M. – MEDICAL ONCOLOGY

**Paper III – MEDICAL ONCOLOGY INCLUDING THERAPY,
EPIDEMIOLOGY AND REHABILITATION**

Q. P. Code: 161303

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Cardiac toxicity due to chemotherapeutic agents and write the management and monitoring of cardiac toxicity during Trastuzumab treatment.
2. HIV associated lymphomas and management of Primary CNS Lymphoma.

II. Write notes on:

(10 x 7 = 70)

1. Case-Control studies and their benefits.
2. Management of Lymphedema in a Breast cancer patient.
3. Management of Radiation Fibrosis Syndrome.
4. Testicular NHL.
5. Prognostic variables and staging of Multiple Myeloma.
6. Mention different Orthotics and Prosthetics in rehabilitation of cancer patients.
7. Hematopoietic cell transplantation in Chronic Myeloid Leukemia.
8. Elaborate the trials which led to the use of chemoradiation in advanced stage cancer cervix.
9. Role of Hormonal therapy for endometrial cancer.
10. Aromatase inhibitors vs Selective Estrogen Receptor Modulators in the treatment of hormone positive breast cancer.
