

April-2001

[KD 155]

Sub. Code : 2052

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radiotherapy

Part II — Final

**Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIO THERAPY**

Time : Three hours †

Maximum : 100 marks

Answer ALL questions.

1. What is the rationale for the development of chemical modifiers of radiation? Discuss the role of chemical modifiers in radiotherapy. (25)
2. Discuss the role of adjuvant chemotherapy and hormonal therapy in early stage breast cancer. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Immuno toxins
 - (b) Endovascular brachytherapy
 - (c) Gamma knife
 - (d) Impact of new imaging modalities on the staging process
 - (e) Intensity modulated radiation therapy.

November-2001

[KE 155]

Sub. Code : 2052

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radiationtherapy

Part II — Final

Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the diagnosis, staging and pathology of germ cell Tumour of testes? Outline the management of Stage IIC Seminoma. (25)
2. Discuss the therapeutic options for T₁N₀M₀ breast carcinoma in a 30 year old lady. What is the role of endocrine therapy in Breast carcinoma? (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Cardiac toxicity.
 - (b) Aromatase inhibitors.
 - (c) Pamidronate Sodium.
 - (d) Gene Therapy.
 - (e) Amifostine.

March-2002

[KG 155]

Sub. Code : 2052

M.D. DEGREE EXAMINATION

(Revised Regulations)

Branch IX — Radiationtherapy

Part II — Final

**Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIOTHERAPY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the diagnosis, pathology and therapeutic considerations in the management of Wilms tumor. (25)
2. Discuss the natural history, diagnostic evaluation, skeletal complications and management of bone metastases in prostate carcinoma. (25)

Write briefly on :

(5 × 10 = 50)

- (a) Colony stimulating factors.
- (b) Tumor markers in germ cell tumors.
- (c) Flow cytometry.
- (d) Cancer vaccines.
- (e) Taxanes.

September-2002

[KH
75]

Sub. Code : 2052

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch B. — Radiotherapy

Part II — Final

**Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIO THERAPY**

Time : Three hours

Maximum : 100 marks

1. Describe the staging and chemotherapeutic management of Non-Hodgkin's Lymphomas. (25)
2. Describe the management of Cancer Breast Stages III and IV (T₃ - T₄) in pre menopausal and post menopausal women. (25)

Write briefly on :

(5 × 10 = 50)

- (a) Oral morphine
- (b) Craniopharyngioma
- (c) Xeroderma pigmentosum
- (d) Dysgerminoma ovary
- (e) Medullary carcinoma thyroid.

April 2003

[KI 155]

Sub. Code : 2052

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radio Therapy

Part II — Final

**Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIOTHERAPY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the current management of a fifteen year old boy with osteosarcoma of lower end of femur. (25)
 2. How will you manage an young woman with choriocarcinoma? Discuss the role of irradiation in treatment of trophoblastic tumours. (25)
 3. Write short note on : (5 × 10 = 50)
 - (a) Autologous Bone Marrow Transplant
 - (b) Intensity modulated radiotherapy
 - (c) Metastatic carcinoma in cervical lymph nodes
 - (d) Endovascular Radiotherapy.
 - (e) Target volume/Treatment volume.
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M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radio Therapy

Part II — Final

Paper III — CANCER CHEMOTHERAPY AND
RECENT DEVELOPMENTS IN CLINICAL
ONCOLOGY AND RADIOTHERAPY

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

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions given on
the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

Essay Questions : (2 × 15 = 30)

1. Narrate the roles played by chemotherapy in the management of Breast Cancer.
2. What is the principle behind chemo-radiation? Discuss with two concrete clinical applications.

3. Short notes : (10 × 5 = 50)

- (a) Three Dimensional treatment planning.
- (b) Give a detailed account on modifiers of Radiation response.
- (c) Oncogenes.
- (d) Apoptosis.
- (e) Tumor markers.
- (f) What is Stereotactic Radiotherapy? What are its advantages?
- (g) Hyperthermia in Radiotherapy.
- (h) Screening mammogram.
- (i) Endovascular Brachytherapy.
- (j) Adjuvant chemotherapy.

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ONCOLOGY AND RADIOTHERAPY

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.

Draw suitable diagrams wherever necessary.

I. Essay Questions: (2 × 15 = 30)

(1) Discuss the rationale of combining radiotherapy and chemotherapy.

(2) Discuss the clinical applications of electron beam therapy.

II. Short notes : (10 × 5 = 50)

(a) Randomized clinical trials

(b) Mention one clinical application of proton beam therapy

(c) Tumor markers in germ cell tumors

(d) Endovascular brachytherapy

(e) Taxanes

(f) Gamma knife

(g) Template technique

(h) IMRT

(i) Conformal radiotherapy

(j) CHOP.