

April-2001

[KD 154]

Sub. Code : 2051

**M.D. DEGREE EXAMINATION.**

(Revised Regulations)

Branch IX — Radiotherapy

Part II — Final

**Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the diagnosis, staging, prognostic factors and current management of testis cancer. Describe the radiotherapeutic techniques used for the treatment of seminoma testes. (25)
  2. Describe with the help of a diagram the various levels of cervical lymph nodes. Discuss the diagnosis, management and techniques of irradiation of a patient presented with left level II cervical lymph node metastasis from an unknown primary as Tx N<sub>2</sub> Mo. (25)
  3. Write briefly on : (5 × 10 = 50)
    - (a) External beam techniques for retinoblastoma
    - (b) Boost of lumpectomy site with interstitial implant
    - (c) Current brachytherapy practice in head and neck malignancies
    - (d) Apoptosis
    - (e) Multiple myeloma
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November-2001

[KE 154]

Sub. Code : 2051

**M.D. DEGREE EXAMINATION.**

(Revised Regulations)

Branch IX — Radiationtherapy

Part II — Final

**Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the clinical approach to malignancies of unknown origin (MUO) in the head and neck region. (25)
2. Discuss the diagnosis and management of carcinoma prostate. Explain the radiation therapy techniques used in the treatment. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) SVC obstruction.
  - (b) WHO ladder.
  - (c) Hospice care.
  - (d) Total body radiation.
  - (e) Malignant Ascitis.

March-2002

[KG 154]

Sub. Code : 2051

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radiationtherapy

Part II — Final

Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY

Time : Three hours, Maximum : 100 marks

Answer ALL questions.

1. Discuss the diagnosis and staging of Hodgkins Lymphoma. Outline the treatment strategies in stage I. A Hodgkins Lymphoma. What are the late effects of treatment? (25)
2. What are the prognostic factors in breast carcinoma? Discuss the treatment strategies in locally advanced breast carcinoma. (25)
3. Write briefly on : (5 × 10 = 50)
  - (a) Strontium-89.
  - (b) Intraluminal Brachytherapy.
  - (c) Radioimmunotherapy.
  - (d) Stereotactic radiation therapy.
  - (e) Radiation enteritis.

September-2002

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Sub. Code : 2051

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radiotherapy

Part II — Final

Part II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Classify cancers of Thyroid. Discuss the management of papillary cancer thyroid and follicular cancer thyroid briefly. (25)

2. Describe the staging and management of carcinoma uterine cervix. (25)

3. Write briefly on :

(a) Granulosa cell tumour ovary

(b) Iridium 192

(c) Plasmacytoma

(d) Medulloblastoma

(e) Giant cell tumour of bone (5 × 10 = 50)

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April-2003

[KI 154]

Sub. Code : 2051

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radio Therapy

Part II — Final

Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the pathology and clinical presentations of mediastinal tumours. How will you manage a patient presenting with superior mediastinal syndrome? (25)
  2. Discuss the management of an early cancer of uterine cervix in a 40 year old woman. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Radiation myelopathy
    - (b) Radioiodine therapy in Thyroid diseases
    - (c) Malignant pleural effusion
    - (d) Short lived radionuclides in Brachytherapy
    - (e) Basal cell cancer of skin.
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[KJ 154]

Sub. Code : 2051

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch IX — Radio Therapy

Part II — Final

Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF RADIOTHERAPY

Time : Three hours                      Maximum : 100 marks

Theory : Two hours and                      Theory : 80 marks  
Forty minutes

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

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :                      (2 × 15 = 30)

1. Describe in detail the clinical applications of  
electron beam therapy.

2. Describe the anatomy, Lymphatic drainage of  
larynx. How do you manage supraglottic lesion by  
radiation?

3. Short notes :                      (10 × 5 = 50)

1. Give a short account on biological considerations  
in combination of chemotherapy and Radiation.

2. Photo dynamic therapy.

3. Hemi-body irradiation.

4. State with diagram GTV, CTV and PTV.

5. Mantle technique.

6. Write short note on ICRU report No. 38.

7. Comment on HDR Vs. LDR in Brachytherapy.

8. Mention few clinical indications of particulate  
beam therapy.

9. Mention in brief about Dental Care in  
Radiotherapy.

10. List out the indication for external radiation in  
thyroid cancer.

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Paper II — CLINICAL PRACTICE AND TECHNIQUE  
OF 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 radiotherapeutic management of a case of carcinoma of uterine cervix stage IB1.

(2) When will you offer breast conservation for a patient with breast cancer? Discuss the role of radiotherapy in that situation.

II. Short notes : (10 × 5 = 50)

- (a) Remote after loading technique.
- (b) Technique of radiotherapy for  $T_1$  glottic cancer.
- (c) HBI.
- (d) IORT.
- (e) Intraluminal brachytherapy.
- (f) EBRT technique for unilateral retinoblastoma (after enucleation).
- (g) Box technique.
- (h) Principles of palliative radiotherapy.
- (i) Craniospinal irradiation.
- (j) Role of radiotherapy in Ewing's sarcoma of bone.