

[KM 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

Theory : Two hours and                      Theory : 80 marks  
forty minutes

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :    (2 × 15 = 30)

(1) Discuss in detail the evolution of organ preservation concept and its present status in the management of Head and Neck cancer.

(2) Write the detailed staging of Hodgkin's Lymphoma. Describe the various choices of Chemotherapy and the treatment outcome in Hodgkin's disease.

II. Short notes :    (10 × 5 = 50)

- (a) Chemo resistance
- (b) Temozolamide
- (c) Cisplatin and Radiotherapy
- (d) Genetic Testing—indications
- (e) Magnetic Resonance Spectroscopy
- (f) Conformal dose delivery for Ca. Breast
- (g) Use of (18 F) FDG – PET in clinical Oncology
- (h) Post Orchiectomy surveillance in seminoma tests
- (i) IMRT
- (j) Cytoprotectors.



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II. Short notes :

(6 × 5 = 30)

M.D. DEGREE EXAMINATION.

Branch IX — RADIOTHERAPY

CANCER CHEMOTHERAPY AND RECENT  
DEVELOPMENTS IN CLINICAL ONCOLOGY  
AND RADIOTHERAPY

Common to :

Part II - Final Paper III — (Old/New/Revised  
Regulations) (Candidates admitted  
from 1988-89 onwards)

And

Paper IV — (For candidates admitted  
from 2004-2005 onwards)

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 :

- (1) Discuss — Conformal radiotherapy. (20)
- (2) Discuss — Partial Breast Irradiation. (15)
- (3) Discuss — AIDS related malignancies. (15)

(a) CEA.

(b) Organ transplantation and cancer.

(c) Kaposi's sarcoma.

(d) Ibandronic acid.

(e) Radioprotectors.

(f) EGFR.

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Sub. Code : 2045

M.D. DEGREE EXAMINATION.

Branch — IX — Radiotherapy

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

(Candidates admitted from 2004 - 2005 onwards)

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 whenever necessary

I. Essay :

1. How do you manage a case of locally advanced Breast Cancer? (20)
2. Chemotherapy of Hodgkin's disease. (15)
3. Discuss on organ conservation treatment in malignancy. (15)

II. Short notes :

(6 × 5 = 30)

- (a) Temazolamide.
- (b) Vaccine in Ca. Cervix.
- (c) Photodynamic therapy.
- (d) Biphosphonates.
- (e) Adriamycin.
- (f) Gene Therapy.

**MARCH 2008**

**[KS 143]**

**Sub. Code : 2038**

M.D. DEGREE EXAMINATION.

Branch IX — Radiotherapy

CANCER CHEMOTHERAPY AND RECENT DEVELOPMENTS IN  
CLINICAL ONCOLOGY AND RADIOTHERAPY

Common to all Regulations

**Q.P. Code : 202038**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- I. Essays : (2 × 20 = 40)
- (1) Discuss the role of intensity modulated radiation therapy (IMRT) in gynaecological malignancies.
  - (2) Discuss the management of stage III ovarian cancer (Adenocarcinoma). Describe the staging and clinical features of carcinoma ovary.
- II. Short notes : (10 × 6 = 60)
- (1) Gefitinib.
  - (2) Chemoprevention.
  - (3) SPECT.
  - (4) Lasers in oncology.
  - (5) Antioxidants.
  - (6) GM-CSF.
  - (7) Cyclotron.
  - (8) Capecitabine.
  - (9) Flow cytometry.
  - (10) CIN III cervix management and follow-up.
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