

[KQ 138]

Sub. Code : 2050

II. Short notes :

(6 × 5 = 30)

M.D. DEGREE EXAMINATION.

Branch IX — Radiotherapy

**GENERAL PRINCIPLES OF RADIOTHERAPY
INCLUDING RADIOBIOLOGY AND ONCOLOGY**

Common to :

**Part II — Final Paper I — (Old/New/Revised
Regulations)**

(Candidates admitted from 1988–89 onwards)

And

**Paper II — (For candidates admitted from 2004–05
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 combined modality treatment for cancer. (20)**
 - 2. Discuss, the common oncological emergencies. (15)**
 - 3. Describe cellular effects of radiation. (15)**

- (a) Biological modifiers**
 - (b) Neoadjuvant chemotherapy**
 - (c) Accelerated fractionation**
 - (d) TNM staging**
 - (e) Radiation oophorectomy**
 - (f) Hemibody irradiation.**
-

[KR 147]

Sub. Code : 2043

M.D. DEGREE EXAMINATION.

Branch IX — Radiotherapy

**Paper II — GENERAL PRINCIPLES OF
RADIOTHERAPY INCLUDING RADIO BIOLOGY
AND ONCOLOGY**

(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. Discuss on clinical manifestations of normal tissue damage. (20)

2. What are the requirements of ideal brachytherapy source. Give a note on Cesium – 137 and Ir – 192 source. (15)

3. Discuss on multidisciplinary approach in Oncology. (15)

II. Short notes : (6 × 5 = 30)

(a) Chemo – radiation.

(b) ICRU – 50.

(c) Particle beams in radiotherapy.

(d) Linear Quadratic model in Clinical practice.

(e) WHO step ladder in pain management.

(f) Adjuvant radiation.

MARCH 2008

[KS 141]

Sub. Code : 2036

M.D. DEGREE EXAMINATION.

Branch IX — Radiotherapy

GENERAL PRINCIPLES OF RADIOTHERAPY INCLUDING
RADIOBIOLOGY
AND ONCOLOGY

Common to all Regulations

Q.P.Code : 202036

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

- I. Essays : (2 × 20 = 40)
1. Describe the acute and late effects following a course of curative radiotherapy to carcinoma cervix and how do you manage them. (20)
 2. What is signal transduction? What is its role in oncology? (20)
- II. Short notes : (10 × 6 = 60)
1. Shrinking field radiotherapy.
 2. Sievert.
 3. Cell Survival curves.
 4. Craniospinal irradiation.
 5. Premalignant lesions of oral cavity.
 6. Mammography
 7. Immobilisation devices.
 8. ¹³¹I.
 9. Basal Cell Carcinoma.
 10. Effect of radiation in pregnancy.
-