Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[Time: 3 Hours] [Max. Marks: 100]

RADIOTHERAPY

PAPER – I (Revised Scheme)

Q.P. CODE : 7481

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Describe anatomy of pituitary gland and classifications of pituitary tumors

2. Describe Radiobiological basis for hyperfractionation and hypofractionation.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Nominal standard dose (NSD) and time dose factor (TDF).

4. Tumor markers

5. Tumor suppressor protein (P^{RB})

6. Cyclotron.

7. Rotation Therapy

8. IMAGE guided radiotherapy.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[Time: 3 Hours] [Max. Marks: 100]

RADIOTHERAPY
CHEMOTHERAPY-PREVENTION AND PALLIATION

PAPER – II (Revised Scheme)

Q.P. CODE : 7482

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Staging of WILMS tumor and describe briefly management of bilateral wilms tumor

2. Staging of Hodgkins lymphoma and management of stage I bulky (cervical node) disease in 28 years male child.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Xeroradiography

4. Intra peritoneal chemotherapy

5. Role of I^{131} in management of thyroid disease

6. Write a short note on management of chemo induced neutropenia

7. Doxorubicin.

8. WHO pain ladder.

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RADIOTHERAPY
PRINCIPLES AND PRACTICE OF RADIOTHERAPY

PAPER – III (Revised Scheme)

Q.P. CODE : 7483

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Describe in detail Advantage of linear accelerator over tele cobalt and management of squamous cell carcinoma of skin.
2. Differential diagnosis for mass in the epigastric region and management of Advanced carcinoma of stomach.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Management of spinal cord compression
4. RBE and LET
5. Clinical presentation and investigation of brain tumors
6. IMRT
7. AIDS associated malignancy.
8. Management of recurrent carcinoma of head and neck.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – May 2010

[Time: 3 Hours] [Max. Marks: 100]

RADIOTHERAPY

PAPER – IV (Revised Scheme)

Q.P. CODE : 7484

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY **2 X 20 = 40 Marks**

1. Management of carcinoma of Breast in menopausal women with primary (5x5cms) and node negative. Describe in detail radiotherapy planning and complication of Breast irradiation.
2. Differential diagnosis for mediastinal tumor, management of carcinoma of Oesophagus.

SHORT ESSAY **6 X 10 = 60 Marks**

3. Brachytherapy in carcinoma of cervix.
4. Dysgerminoma of ovary.
5. Role of radiotherapy in management of Hodgkins lymphoma
6. βHCG and AFP
7. Carcinoid tumor
8. Management of stump carcinoma of cervix.

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