Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

Diploma in Medical Radiotherapy (D.M.R.T)

PAPER- I

Q. P. CODE: 7151

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

Answer All The Questions | 10 x 10 = 100 Marks

1. Acute Radiation Syndromes.
2. What are the requisites for Cancer screening? Enumerate with examples.
3. What is meant by half life and mean life of a radioactive material? Write in brief on Radioactive equilibrium.
4. Wedge filters.
5. Radiation Monitoring devices.
6. Radiation induced cardiac disease.
7. Stochastic and deterministic effects of radiation.
8. Paris system for interstitial implantation.
9. What are beam modifying devices, explain any one of them.
10. Write on the QA of a Linear Accelerator.

Rajiv Gandhi University of Health Sciences, Karnataka

*****

Post Graduate Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

DIPLOMA IN Medical Radiotherapy (D.M.R.T)

PAPER – II

Q.P. CODE: 7152

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

Answer All The Questions | 10 x 10 = 100 Marks

1. Classify testicular tumors. Write on the role of radiotherapy in stage I seminoma testis.
2. How would you evaluate and treat a male patient with metastatic well differentiated Adenocarcinoma to the supraclavicular lymph node?
3. Hemi-body radiation.
4. Graves disease.
5. Radiation therapy techniques for gastric cancer.
6. Role of brachytherapy in adjuvant treatment of endometrial cancer.
7. Acoustic neuroma.
8. Chemotherapy for colonic cancer.
9. Chemotherapy induced vomiting.
10. Radiation induced cardiac toxicity.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

Diploma in Medical Radiotherapy (D.M.R.T)

PAPER- III

Q. P. CODE: 7153

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

Answer All The Questions | 10 x 10 = 100 Marks

1. Classify testicular tumours. Discuss the management of non seminomatous testicular tumours.
2. Discuss in detail about radiotherapy treatment for nasopharyngeal cancer.
3. Retinoblastoma.
4. Cutaneous melanoma.
5. Small cell cancer of lung.
6. Spinal metastases.
7. Immunotherapy in cancer.
8. Management of $T_1N_0M_0$ vocal cord tumour.
9. Preoperative chemoradiation for rectal cancer.
10. Role of Radiotherapy for Hodgkin's Lymphoma.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – <<<>>>

Time: Three Hours Max. Marks: 100 Marks

Diploma in Medical Radiotherapy (D.M.R.T)

PAPER- I

Q. P. CODE: 7151

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

Answer All The Questions 10 x 10 = 100 Marks

1. Compare and Contrast different immobilization devices.
2. Radiosensitizers and their advantages and disadvantages.
3. Multi-leaf collimators.
4. Rotation photon beam therapy.
5. What are the differences in the cell survival curves of the early and the late responding tissues?
6. Radiation induced liver damage.
7. Tumor markers.
8. Variation of radiosensitivity and thermosensitivity with mitotic cycle.
9. OER, LET and RBE.
10. Discuss principles behind combining Surgery and Radiation.

*****

Post Graduate Degree Examination – NOV 2018

Time: Three Hours Max. Marks: 100 Marks

DIPLOMA IN Medical Radiotherapy (D.M.R.T)

PAPER – II

Q.P. CODE: 7152

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

Answer All The Questions 10 x 10 = 100 Marks

1. Discuss the physical and biological principles of brachytherapy.
2. Describe in detail, the treatment planning of tangential field treatment of chestwall after mastectomy.
3. Role of targeted therapy for metastatic NSCLC.
4. Haemostatic irradiation.
5. Superior Venacaval obstruction.
6. Bleomycin.
7. Radioactive iodine for thyroid cancer.
8. Onboard imaging.
9. Chemotherapy for Hodgkin's disease.
10. Oncotype D_X.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – NOV 2018

Time: Three Hours | Max. Marks: 100 Marks

Diploma in Medical Radiotherapy (D.M.R.T)

PAPER- III

Q. P. CODE: 7153

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

Answer All The Questions | 10 x 10 = 100 Marks

1. What are the risk factors for the development of breast cancer? Briefly write on the screening recommendations for breast cancer.
2. Write on the treatment options for a patient with Muscle invasive bladder cancer.
3. Permanent implants in prostate cancer.
4. Radiotherapy in Low grade lymphomas.
5. Familial Adenomatous Polyposis.
6. Molecular evaluation in cancer of unknown primary.
7. Multi-leaf collimators.
8. Burkitt's Lymphoma.
9. How do you plan adjuvant radiotherapy for gastric cancer?
10. Write in detail radiotherapy planning for a patient of GBM.

*****