Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Diploma Examination – 07-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

DIPLOMA IN MEDICAL RADIOTHERAPY (D.M.R.T)
PAPER- I (RS-2/RS-3)
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. Enumerate the different interactions of energy with matter. Write the clinical applications of each of them.
2. Discuss the anatomy and lymphatic drainage of the Nasopharynx. How is this knowledge useful for treatment planning?
3. What is CHART therapy? Mention the schedules, & clinical applications.
4. Radiation cataractogenesis.
5. What is Oxygen enhancement ratio? Write on the various factors that affect the OER.
6. What are the methods to correct for surface irregularities in photon beam planning? Write in brief on any one technique.
7. Write the histological classification of Ovarian tumors. Write briefly on Papillary serous cystadenocarcinoma.
8. What is meant by TD 5/5 and TD 50/5? Write the TD 5/5 and TD 50/5 for the whole organ irradiation of the Liver, Small intestine, Kidneys and Lungs.
9. Electron Beam Therapy.
10. Cell Survival Curve and its relevance for a radiation oncologist.

Post Graduate Diploma Examination **– 09-May-2022**

Time: Three Hours **Max. Marks: 100 Marks**

DIPLOMA IN Medical Radiotherapy (D.M.R.T)
PAPER – II (RS-2/RS-3)
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. SBRT.
2. Hypofractionation in prostate cancer.
3. Intracavitary brachytherapy in cervix cancer.
4. Role and treatment technique of radiation treatment of lower third esophageal cancer.
5. Write about : a) Docetaxel b) Carboplatin
6. SVCO and Tumour lysis syndrome.
7. Hormonal treatment of Breast cancer.
8. Radiation cystitis.
9. Hemibody irradiation.
10. BRCA mutation in Breast Cancer.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Diploma Examination – 11-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

DIPLOMA IN MEDICAL RADIOTHERAPY (D.M.R.T)
PAPER- III (RS-2/RS-3)
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. Discuss the Management and Radiation techniques in a year old male medulloblastoma.
2. Short notes on – a) Para Aortic Lymph Node Irradiation b) Hepatic Metastasis
3. What are the indications of Adjuvant Radiotherapy in Carcinoma Breast and explain the technique for Ca. breast (Lt), Post Mastectomy.
4. Short notes on – a) Para Neoplastic Syndrome b) Prevention and management of Xerostomia
5. Explain the management of Ca. Left Buccal Mucosa – T2 N1 M0.
6. Short notes on – a) Role of BCG in Bladder Cancer
   b) Pre-Cancerous Lesion in oral cavity
7. Short notes on – a) Medullary Carcinoma of Thyroid
   b) role of Radiotherapy in Acute Lymphoblastic Leukemia
8. How do manage carcinoma cervix in pregnancy?
9. Short notes on – a) Cyber Knife b) Para Metrial boost
10. Management of Mid 1/3rd of Carcinoma Esophagus