Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - MAY 2017

[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 Larynx. Explain different routes of local spread of Glottic Cancer and evaluation of glottic cancer.
2. What are differences between Supervoltage and Kilovoltage Radiotherapy? Explain the construction and function of Cobalt – 60 Tletherapy unit

SHORT ESSAY 6 X 10 = 60 Marks

3. Discuss investigational work – up patient with Cervical Lymphadenopathy
4. Describe different – steps of Radiation Therapy planning in Maxillary sinus cancer
5. Afterloading in Brachytherapy
6. Dose volume Histogram
7. Angiogenesis
8. Acute Effects of Whole body exposure to lonizing Radiation

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – MAY 2017

[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. Describe the cell kinetics in the chemotherapy in cancer management and describe the role of chemotherapy alone / in conjunction with radiotherapy or surgery in the management of CA. breast.
2. Describe the various palliative measures used in cancer management.

SHORT ESSAY 6 X 10 = 60 Marks

3. Mammogram
4. Intrathecal chemotherapy
5. Anti metabolites
6. Screening of cervical malignancy
7. Harmone therapy in CA. prostate
8. Role of chemotherapy in Hodgkin's lymphoma

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - < < > >

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

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. Classify Laryngeal tumors. Discuss the management of T2 No Mo Glottic cancer

2. What are differences between Stereotactic Radiotherapy & Sterotactic Radioosurgery? Describe in detail the management of single metastatic SCC lesion in parietal lobe of brain.

SHORT ESSAY 6 X 10 = 60 Marks

3. Describe different types of Basal cell carcinoma. How will you manage a case of Rodent ulcer involving medical canthus of Eye
4. Discuss management of 2cm sized SCC on lateral border on Mobile Tongue
5. Management of solitary nodule in Thyroid gland
6. How will you treat Ca Oesophagus in middle third presenting with minimal dysphagia
7. Management of chemodectoma in neck
8. Management of pancoast Tumor

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Rajiv Gandhi University of Health Sciences

Post Graduate Degree Examination – JUNE 2017

Time: Three Hours | Max. Marks: 100 Marks

MD RADIOTHERAPY PAPER-IV (Revised Scheme)

Principle and Practice of Radiatherapy of thoracic region, including breast, genito urinary system, lymphoretichlar system, musculo-skeletal system and paediatric tumors

Q. P. CODE: 7484

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

LONG ESSAYS 2 x 20 = 40 Marks

1. Describe in detail the various radiotherapy techniques used in the management of localized prostate carcinoma. Mention the prognostic factors
2. Discuss the role of Radiotherapy in the management of Hodgkin's disease.

SHORT ESSAYS 6 x 10 = 60 Marks

3. AIDS defining cancers
4. Trastuzumab
5. Virtual simulation
6. Synovial sarcoma
7. PET scan in Lung cancer
8. Bisphosphonates

Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - NOVEMBER 2017

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

Radiotherapy - PAPER – I

Applied Anatomy, Pathology, Radiation Physics, Radio Biology

Q. P. CODE: 7481

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. Describe Heavy particle beams with advantages and disadvantages over conventional photon beams.
2. Describe cancer prevention.
3. Oncogenes.
4. Biology of metastases.
5. Second primary malignant tumors.
6. Cost benefit and EBM.
7. Modes of cell death after irradiation.
8. OER, LET, RBE.
9. Maximum Permissible Dose.
10. Discuss the limitations of a Telecobalt unit.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination - NOV 2017

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

RADIOTHERAPY - PAPER- II

Principles & Practice of Chemotherapy in Malignant Diseases, Preventive Oncology, Palliative Care

Q. P. CODE: 7482

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 role of chemotherapy in colorectal cancers.
2. Define “Palliative Care”. What are its main aims and how are they achieved?
3. KPS.
4. Capacitabine.
5. TNM staging.
6. LENT – SOMA scale.
7. RECIST criteria.
8. Clinical trials.
9. Mammography.
10. Vaccination for cervical cancer.

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Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – NOV - 2017

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

RADIOTHERAPY - PAPER- III

General Principles of Radiotherapy and Oncology,
Principles and Practice of Radiotherapy of skin, Head & neck,
Central and Peripheral Nervous System, GI Tract Tumors.

Q. P. CODE: 7483

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. Describe staging and Radiotherapeutic management of gastric cancer.
2. Describe the technique of Radiotherapy for treatment of nasopharyngeal malignancy.
3. Treatment of Basal cell carcinoma.
4. Management of solitary brain metastasis.
5. Squamous cell carcinoma of skin.
6. Radioactive isotopes used in Brachytherapy.
7. Tumor markers in Testicular malignancies.
8. Pre Radiotherapy work- up in oral malignancies.
9. MPNST (Malignant Peripheral Nerve Sheath Tumour).
10. Radiation planning for GBM.

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Rajiv Gandhi University of Health Sciences

Post Graduate Degree Examination – NOV 2017

Time: Three Hours Max. Marks: 100 Marks

RADIOTHERAPY - PAPER- IV

Principle and Practice of Radiatherapy of Thoracic Region,
Including Breast, Genito Urinary System, Lymphoretichlar System,
Musculo-Skeletal System and Paediatric Tumors

Q. P. CODE: 7484

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. Describe in detail lymphatic drainage of the breast and Radiotherapeutic management of locally advanced breast cancer.
2. Classify ovarian cancers and discuss the Chemotherapy for stage III epithelial ovarian cancer.
3. Side effects of lung irradiation.
4. Proton therapy in pediatric malignancies.
5. Burkitt's lymphoma.
6. Letrozole.
7. Eosinophilic granuloma.
8. Phosphorus 32 (P 32).
9. Role of radiation for Ewings sarcoma
10. SBRT for Lung tumours.

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