Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

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 the pathological classification and staging of bladder cancer.
2. Discuss the brachytherapy sources used in radiotherapy, their advantages and disadvantages.
3. Radiation effects on embryo/fetus.
4. Tumor cell kinetics.
5. High LET Radiotherapy.
6. Treatment simulator.
7. Immunotherapy in cancer.
8. Technitium 99 m.
9. Sample size estimation.
10. Compton effect and its importance.

Rajiv Gandhi University of Health Sciences, Karnataka

MD Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

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 the management of a child with newly diagnosed acute lymphoblastic leukemia (ALL)
2. Chemotherapy for a newly diagnosed limited stage Small Cell Lung Cancer (SCLC).
3. Explain “Chemo Resistance” and ways to overcome it.
4. Intraperitoneal chemotherapy.
5. Opioids in palliative care.
6. Indications and side effects of Pemetrexate.
7. Role of Zolendronic acid in cancer care.
8. Management of spinal cord compression.
9. Cancer Vaccines.
10. Non Pharmacological management of cancer pain.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – MAY-2018

Time: Three Hours | Max. Marks: 100 Marks

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. Classify brain tumors and Discuss role of Temozolanide for “Glioblastoma multiforme”.
2. Discuss the management of locally advanced laryngeal cancer.
3. Basal cell carcinoma.
4. EGFR in head and neck cancer.
5. CEA.
6. Radiotherapy for anal canal cancer.
7. 5 Fu.
8. Primary gastric maltoma.
9. Role of radiotherapy for gall bladder cancer.
10. Discuss trials supporting neoadjuvant RTCT or rectal cancer.

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Rajiv Gandhi University of Health Sciences, Karnataka

MD Degree Examination – MAY-2018

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. Discuss in detail treatment of Stage III Non Small cell Lung Cancer.
2. Discuss in detail the role of Radiotherapy in the management of early stage breast cancer.
3. What is IMRT? Enumerate the various steps involved in planning IMRT.
4. What is radiation induced heart disease? Describe various methods used to reduce cardiac toxicities caused by radiotherapy.
5. Chronic myeloid leukemia (CML).
6. Role of radiotherapy in the management of Ewing's Sarcoma of Bone.
7. Hypercalcaemia.
8. Rituximab in cancer therapy.
9. Braclytherapy for soft tissue sarcoma.
10. Radiotherapy for Penile cancer.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – NOV - 2018

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

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. Classify testicular tumors and describe the treatment of stage I seminoma.
2. Classify lung tumors and describe the advances in radiotherapy techniques for the same.
3. Metastatic Ca. Breast – management.
4. Management of radiation induced side effects of Ca. cervix.
5. Osteogenic sarcoma.
6. Treatment of Dysgerminoma.
7. Radiotherapy in lymphoma.
8. Neuroblastoma.
9. Side effects of radiation for pediatric patients.
10. Radiation for muscle invasive bladder cancer.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – NOV 2018

[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. Define Brachytherapy and its role in head and neck cancer treatment.
2. Describe role of radiotherapy for pituitary tumours and techniques used.
3. Tomotherapy.
4. Management of Ca. larynx.
5. Acute side effects of radiotherapy and the management.
6. Malignant melanoma.
7. Solitary S.O.L in liver.
8. Optimisation in treatment planning.
9. Role of radiation for pancreatic tumour.
10. How do you plan radiation of U/3 esophageal cancer?

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – NOV 2018

[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 chemotherapy for Ewings sarcoma.
2. Classify Anti-mitotic Chemotherapeutic drugs. What late effects you expect in a patient treated with MOPP regimen and involved field Radiotherapy for IIB supra-diaphragmatic Hodgkin's disease in a 15 year old boy?
3. HPV and cancer
4. Management of Superior Vena Cava Syndrome.
5. Management of Lymphoedema.
6. Chemo-Radiation in Head and Neck Cancer.
7. Hypercalcemia.
8. Good working practices in chemotherapeutic drug administration.
9. Febrile neutroenia.
10. Morphine Therapy.

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Rajiv Gandhi University of Health Sciences, Karnataka

Post Graduate Degree Examination – NOV-2018

Time: Three Hours | Max. Marks: 100 Marks

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. Discuss in detail the acute radiation syndromes.
2. What is 3D-conformal radiotherapy? Discuss in detail the steps involved in 3D-CRT of head and neck cancer.
3. Radiation protection in practice.
4. Hyperfractionation.
5. Intra-operative radiotherapy.
6. High dose rate brachytherapy.
7. Pathologic classification of Non Hodgkin's lymphoma.
8. Anatomy and lymphatic drainage of Rectum.
9. Photoelectric effect and its application.
10. Onboard imaging.

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