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MANIPAL UNIVERSITY

MD (RADIOTHERAPY) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER I: BASIC SCIENCES IN RELATION TO RADIOTHERAPY

Tuesday, April 01, 2008

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

1. Discuss the radiobiological factors that influence the response to radiation.
(20 marks)
2. Describe the anatomy of salivary gland and effect of radiation on normal salivary gland. Discuss the pathology, clinical features and management of malignant salivary gland tumors.
(20 marks)
3. Describe the Lymphatic drainage and staging of carcinoma thyroid. Describe the management of papillary carcinoma of thyroid.
(20 marks)
4. Write short notes on the following:
4A. Gamma camera.
4B. Radiation myelitis.
4C. Lung correction in radiotherapy.
4D. Radiation and second malignancies.
(10×4 = 40 marks)

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MANIPAL UNIVERSITY

MD (RADIOTHERAPY) DEGREE EXAMINATION - APRIL 2008

SUBJECT: PAPER III: CLINICAL RADIOTHERAPY AND CANCER CHEMOTHERAPY

Thursday, April 03, 2008

Time: 3.Hrs.

Max. Marks: 100

Answer all the questions.

1. Describe the anatomy and lymphatic drainage of anal canal. Discuss the epidemiology and management of carcinoma anal canal.

(20 marks)

2. Describe the effect of radiation on testes. Discuss the clinical features and staging of testicular tumors. Discuss the role of Radiotherapy in the management of seminoma testes.

(20 marks)

3. Describe the lymphatic drainage of penis. Discuss the staging and role of radiotherapy of carcinoma of penis.

(20 marks)

4. Write short notes on the following:

(10×4 = 40 marks)

(10×4 = 40 marks)

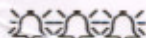
4A. Parenteral nutrition

4B. Pinealoma

4C. Paget's disease of nipple

4D. Thalidomide

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MANIPAL UNIVERSITY

MD (RADIOTHERAPY) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER IV: RECENT ADVANCES IN RADIATION ONCOLOGY

Friday, April 04, 2008

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions

1. Enumerate the complications seen during radiation therapy of Carcinoma Cervix. Discuss the options available for the treatment of late complications.
(20 marks)

2. Discuss the etiological factors, clinical features and staging of Hodgkin's Lymphoma. How do you manage stage I B Hodgkin's Lymphoma?
(20 marks)

3. Discuss in detail the role of "Tumor markers" in Oncology.
(20 marks)

4. Write short notes on the following:
(10×4 = 40 marks)
 - 4A. WHO ladder for pain management
 - 4B. TNM staging
 - 4C. 3D conformal Radiotherapy
 - 4D. Consent form

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