

MD[Radiotherapy]

BF/2009/05

Basic Sciences and Physics as applied to Radiotherapy

[Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Describe the anatomy and lymphatic drainage of the Breast in detail and the importance in planning of treatment. [25]
2. Describe the interaction of radiation with matter with their relative clinical importance. [25]
3. **Write short notes on:** [25]
 - a. Beam modification devices.
 - b. Percentage Depth Dose.
 - c. Personal monitoring devices.
4. **Write short notes on:** [25]
 - a. Electron Beam therapy.
 - b. 4-R's of radiobiology.
 - c. Differences between Kilovoltage and Megavoltage radiations.

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Principles of Radiotherapy

[Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Classify Ovarian malignancies. How will you manage a case of Dysgerminoma? [30]
2. What are the causes of Dysphagia? How will you manage a case of Ca Oesophagus? [30]
3. **Write short notes on:** [40]
 - a. Malignant Pleural effusion - management.
 - b. Basal cell carcinoma.
 - c. Tomotherapy.
 - d. Bone marrow transplantation.

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Practice of Radiotherapy & Chemotherapy

[Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions. All questions carry equal marks.

1. Discuss the role and techniques of radiation in the treatment of Carcinoma maxilla. [25]
2. How will you manage a case of seminoma testis stage-II? [25]
3. Discuss the treatment of locally advanced carcinoma breast with details of neo-adjuvant chemotherapy and its results. [25]
4. **Write short notes on:** [25]
 - a. Surface Mould therapy.
 - b. Role and techniques of radiation in Medulloblastoma.

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Recent advances in Radiotherapy

[Paper-IV]

Time : 3 Hours

M.M.: 100

Note:: Attempt all questions. All questions carry equal marks.

1. What are the various options in the management of recurred case of head and neck malignancies? What is the role of re- irradiation?
2. What is the management of Hormone resistant case of Carcinoma prostate? How will you diagnose the hormone resistance of Carcinoma prostate?
3. How will you manage a case of metastatic liver disease? What is the role of radiofrequency ablation in metastatic liver disease?
4. **Write short notes on:**
 - a. Carmustine weafers.
 - b. Thalidomide.
