

# 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.

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