

**PG Degree Supplementary Examinations in Radiation Oncology
(MD) January 2024**

Paper II - General Principles and Clinical Practice of Radiotherapy

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay:

(20)

1. A 20-year-old male came with history of nasal stuffiness and neck mass.

(a) Discuss the differential diagnosis. (5)

(b) Discuss the management options. Discuss in detail about the role of radiotherapy in this management. (5+10)

Short essays:

(8x10=80)

2. Stages of carcinogenesis and its clinical relevance

3. PSA, alpha fetoprotein and beta HCG.

4. Principle of combining radiation with chemotherapy

5. Draw a Isodose curve depicting the radiotherapy planning in carcinoma vocal cord for both conventional and conformal techniques

6. Explain on the conventional planning in radiotherapy for medulloblastoma

7. Explain the principle of PCR and FISH with relevant examples

8. A patient came with history of dysphagia for solids since two months. After endoscopy and biopsy was diagnosed to have ca esophagus middle 1/3rd. Explain further management

9. Explain the different routes of spread in ca breast and write a note on krukenbergs tumor
