

**The West Bengal University of Health Sciences**  
**M.D. (Radiotherapy) November, 2021 Examination**

Paper: I

Full Marks: 100

Time : 3 Hours

*Answer all questions*

1. Describe briefly the anatomy of maxillary antrum. Discuss the natural history of carcinoma maxillary antrum. 5+5
2. What is re-irradiation ? What factors will you take into consideration and why, When irradiating head-neck cancers? 3+7
3. Write short notes on: 3+3+4
  - a) Dynamic adaptive radiotherapy
  - b) Prophylactic cranial irradiation
  - c) Intraperitoneal chemotherapy
4. Write short note on: 5+5
  - a) Cancer Vaccine
  - b) Febrile Neutropenia
5. Describe the syndromes related to nasopharyngeal carcinoma. 10
6. Discuss the role of tobacco as carcinogen. 10
7. Discuss the pathway of circulation of cerebrospinal fluid. What is its relevance when craniospinal irradiation is advocated? 5+5
8. Describe the model report of a histopathological assessment of a modified radical mastectomy for adenocarcinoma of the breast. What aspects will you focus on to tailor your treatment decision ? 5+5
9. What are the different phases of clinical trials ? Discuss one randomized trial for lung cancer which has made clinical impact. 5+5
10. Discuss the role of tumor angiogenesis in tumor pathophysiology. Describe various activators and inhibitors of angiogenesis. 5+5