

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

Paper: I

Full Marks: 100  
Time : 3 Hours

Answer all questions

1. Draw and describe a labeled diagram of the lymphatic drainage system of breast with relevance to clinical importance. 10
2. Write short notes on staging of lung cancer. 10
3. Phases of clinical trial. 10
4. Cell kill hypothesis of Skipper. 10
5. Boron neutron capture therapy. 10
6. Photo Electric phenomenon. 10
7. Polymerase chain reaction (PCR): Principles & procedure and its advantages and limitations. 5+2+3
8. Discuss the role of tobacco as carcinogen. 10
9. Radiological anatomy of hippocampus. Evidence based importance of hippocampus in radiotherapy practice. 4+6
10. What are the objectives of real-time tumour tracking ? Compare and contrast the two real time imaging systems currently available in clinical use. 4+6