

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

Paper: IV

Full Marks: 100

Time : 3 Hours

Answer all questions

1. Rationale of proton therapy and its potential clinical applications. 10
2. Answer briefly: 5+5
 - a) Postoperative radiotherapy in high risk adult medulloblastoma
 - b) Acute, subacute and late toxicity of cranial irradiation.
3. Write short notes on: 5+5
 - a) PERCIST
 - b) LI-RADS
4. What is field matching ? Give examples of field matching in clinical radiotherapy. What are the problems with field matching and how can those be prevented ? 2+3+2+3
5. Describe WHO ladder of pain management. What do you understand by Hospice care ? 5+5
6. Briefly describe following molecular methods used in oncology with example. 4+3+3
 - a) PCR
 - b) FISH
 - c) NGS
7. Write short notes on: 5+5
 - a) Nivolumab
 - b) ISRT and INRT in lymphoma
8. Enumerate the principles of good clinical practice. What is informed consent and how should it be taken ? 5+2+3
9. Enumerate the causes of hypercalcemia in the background of malignancy and discuss its management. 10
10. Write short notes on: 5+5
 - a) I CRU89
 - b) VMAT