

The West Bengal University of Health Sciences
M.D. (Radiotherapy) May - June, 2022 Examination

Paper: I

Full Marks: 100

Time : 3 Hours

Answer all questions

1. Describe the cell cycle in brief and discuss the role of Checkpoint Inhibitors in clinical practice. 4+6
2. Describe the lymphatic drainage of testis with a labelled diagram. Describe the radiation portal in Stage I and Stage II seminoma Testis. How do you manage if there is Scrotal Violation in Stage I seminoma Testis? 4+4+2
3. Give a brief account of Genetic syndromes in association with colorectal cancer. Describe the significance of MSI testing in colorectal cancer. 5+5
4. Write short notes on : 5+5
 - a) Embryology, surface anatomy and radiographic anatomy of sella-turcica.
 - b) Name the techniques of radiotherapy used for sellar and suprasellar tumours.
5. Define Meta-analysis. Describe the Forest Plot with a schematic diagram. What do you mean by Odds Ratio and hazard Ratio in statistical analysis? 2+4+4
6. What are the tumours associated with chronic infection of HPV? Explain the pathogenesis of developing malignancy in chronic HPV infection? What are the strategies used for prevention of malignancy in patients thus infected? 2+3+5
7. Discuss briefly Non inferiority trial. Mention 2 such trials of clinical importance. 6+4
8. Write short notes on : 5+5
 - a) Anatomy of Parotid glands and pathology of parotid tumours.
 - b) Indication of Adjuvant Radiotherapy in Parotid tumours.
9. Discuss the indications, techniques, dose schedules and results of ¹³¹Iodine therapy in thyroid cancer. 10
10. Write short notes on : 5+5
 - a) RECIST criteria in cancer response evaluation
 - b) How to do response evaluation in Immunotherapy