

QP Code:104117

Reg.No.:.....

PG Degree Examinations in Radiotherapy (MD) - May 2017

Paper IV - Recent Development in Clinical Oncology

Time: 3 hrs

Max marks:100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays: (20)

1. Define stereotactic radiotherapy (SRT) and stereotactic radiosurgery (SRS).
What are the radio biologic considerations in relation to the above. Describe in detail the SRS procedure for acoustic neuroma.

Short essays: (8x10=80)

2. What is immunohistochemistry (IHC). Mention how IHC forms the basis of identifying the cell of origin in metastasis of unknown origin.
3. The role of interstitial implant in different malignancies with special reference to brachytherapy for soft tissue sarcoma.
4. Vaccines in carcinoma cervix.
5. Use of MRI in radiotherapy planning
6. Indications of total body irradiation (TBI). Discuss the technique, dose and precautions to be taken while planning TBI.
7. Tolerance dose of the following with its importance
 - Liver
 - Lens
 - Kidney
 - Retina
8. What is meta-analysis and explain with an example.
9. Involved site and involved nodal radiotherapy in the management of Hodgkin's lymphoma.
