

167-NR

M.D. DEGREE EXAMINATION – APRIL, 2015

RADIOTHERAPY

Paper-IV : Clinical subjects in relation to Radiotherapy

Time: 3 Hours

Max. Marks: 100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Stereotactic body radiotherapy.
- 2) Briefly explain the technique of Total skin Electron beam therapy.
- 3) What are the different strategies employed for Image guided Radiotherapy?
- 4) Permanent interstitial implants.
- 5) Write in brief on the BRW frame for Stereotactic Radiosurgery. Describe the process of planning a patient for SRS.
- 6) What are the different designs of Multileaf collimator? Write on the benefits of MLC.
- 7) Enumerate the advantages and disadvantages of a Linear accelerator over Cobalt-60 teletherapy unit.
- 8) Write the indications for total body irradiation and the techniques of TBI. Enumerate the potential complications of TBI.
- 9) What are the principles of combining Chemotherapy with Radiotherapy? Write on the different methods of combining the two treatments and their potential advantages and disadvantages.
- 10) What are the principles of Carbon-ion Radiation Therapy?

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