Radiotherapy II

Time: 3 Hours

- Answer all questions
- Draw diagrams wherever necessary

Essays:

- 1. Discuss the classification of testicular tumours. Describe the management of stage 1 seminoma testis.
- 2. Mention the etiology, pathology and investigations of carcinoma cervix. Describe in details about radiation technique in ca cervix II B
- 3. What is electron beam therapy. Discuss briefly the physics and clinical application of electron beam treatment.

Short notes:

- Stochastic and non-stochastic effects
- 5. ALARA
- 6. Prophylactic cranial irradiation
- 7. LET and BED (linear energy transfer and biologic equivalent dose)
- 8. Immobilization devices
- 9. HDR brachytherapy
- 10. Acute radiation mucositis
- 11. Radiation sensitizers

Answer briefly:

12. Shielding in radiotherapy

- 13. Spinal cord compression
- 14. Tolerance doses of critical organs
- 15. Wedge filters
- 16. Particle radiation
- 17. Collimators
- 18. Iridium 192
- 19. Simulation in breast radiotherapy
- 20.TLD
- 21.SSD

(10x3=30)



(8x5=40)

Max Marks: 100

(3x10=30)

Reg. No.....

QP CODE: 302018