

Q.P.CODE:165-NR

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA

M.D. DEGREE EXAMINATION – APRIL, 2019**RADIOTHERAPY**

Paper-II : Principles and Practice of Radiotherapy

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) A 45 year old male presented with 3 month history of slowly enlarging lumps in his left axilla and left supraclavicular fossa. Physical examination revealed a 30mm hard, fixed mass in his left supraclavicular fossa and a 40mm hard, mobile mass in his left axilla. The remainder of the physical examination was normal. An incisional biopsy of the supraclavicular fossa mass showed metastatic poorly differentiated carcinoma. He had not undergone any further investigations and has been referred to you for further management.
 - a) What investigations would you recommend for this patient?
 - b) Histopathology review confirmed a diagnosis of poorly differentiated carcinoma (non-small cell) and investigations failed to identify a primary site. Staging investigations confirmed nodal disease in his left axilla and supraclavicular fossa, but no evidence of disease elsewhere. What would be your recommended management plan for this patient?
- 2)
 - a) Describe the potential endocrine and metabolic side effects of cancer treatment in adults, giving examples.
 - b) How would you prevent and manage these effects in a man with prostate cancer on long-term androgen deprivation therapy?
- 3)
 - a) Discuss the causes of renal failure in patients with malignancy.
 - b) What factors would you take into consideration in determining the management of renal failure in a cancer patient under your care?

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