

Q.P.CODE:166-NR*Dr. NTR University of Health Sciences::Vijayawada-520 008***M.D. DEGREE EXAMINATION – APRIL, 2019****RADIOTHERAPY****Paper-III: 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) Regarding patients undergoing radical chemo-radiation for cancer of the lower thoracic oesophagus:
 - a) Describe a suitable radiation technique
 - b) List the causes of malnutrition
 - c) What is the significance of malnutrition?
- 2) Regarding patients undergoing radical chemo-radiation for carcinoma of the nasopharynx:
 - a) What are the staging investigations you would recommend?
 - b) Describe a suitable radiation technique
 - c) Acute and chronic side effects of radiation
- 3) What are the radiation effects on brain? How will you manage?
- 4) Pathophysiology of radiation pneumonitis. What are the risk factors for development of radiation pneumonitis?
- 5) Describe briefly the role of radiation in carcinoma stomach
- 6) Molecular typing of breast cancer
- 7) Describe briefly the investigations and management of malignant ascites
- 8) Tumor lysis syndrome
- 9) A 60 year old postmenopausal lady treated for triple negative breast cancer 3 years back presents with complaints of back pain. Investigations revealed a lytic lesion in T12 vertebral body with impending spinal cord compression. How will you proceed?
- 10) National Cancer Control Program.