

MNJ INSTITUTE OF ONCOLOGY AND REGIONAL CANCER CENTRE

DEPARTMENT OF RADIATION ONCOLOGY

INTERNAL EXAMINATIONS

2024 batch

TIME: 3 Hours

MAX MARKS: 100

Note: Answer All Questions

Give diagrammatic representation whenever necessary.

(28-03-2026)

Write a short essay on the following:

10 X10 = 100

- 1) Describe in detail the features of Acute Radiation syndrome?
- 2) What is the etiology & clinical features of SVCO & describe in detail its treatment by Radiation and Chemotherapy?
- 3) Draw and label the lymph nodal drainage of breast?
- 4) What is the role of radiation in malignant spinal cord compression? How do you choose between single fraction vs multifraction RT? Role of SBRT?
- 5) Describe in detail the etiology, pathogenesis and treatment of Tumor Lysis Syndrome (TLS)? (2+3+5)
- 6) What is acute and chronic hypoxia and describe in detail the process of reoxygenation? (5+5)
- 7) Define LET, RBE and describe its relation with OER?
- 8) Describe the 5 R's of radiobiology?
- 9) Describe the mechanisms of sublethal and potentially lethal damage?
- 10) Write the staging of carcinoma tongue along with the help of a diagram?