

DMLT/DMRT EXAMINATION BOARD, ODISHA

SECOND D.M.R.T-I (ANNUAL EXAMINATION) 2020

QUESTIONS (PAPER –I)

Answer all Questions Time: 3 Hours/ Full marks :100

A. Answer any two of the following questions :

20X2=40

1. Give a sketch diagram of Liner Accelerator. Describe it's function and write about it's advantages in treating malignant tumors.
2. What is Nuclear medicine? Write notes on the Radioisotope used in Nuclear medicine. Describe about Thyroid Scanning.
3. Write a note on Brachytherapy.

B. Write short notes on any five of the following questions.

8X5=40

1. Radioisotope Co-60 and it's use in Radiotherapy.
2. Patient positioning during Radiotherapy.
3. X-ray machines.
4. Interstitial Implantation.
5. Radiation Protection.
6. Tumor dose.

C. Fill in the Blanks.

2X10=20

1. TLD Badge is a _____ device.
2. Laser light beam is used in Radiotherapy for _____.
3. SSD is Source to _____ distance.
4. HVL of Co-60 beam for lead is _____.
5. Beam energy of Co-60 beam is _____.
6. Radiation portal used during treatment of cancer cervix under telecobalt is _____.
7. _____ Injects electrons into the accelerating tube of LINAAC.
8. _____ isotopes is used in thyroid scanning.
9. Unit of Absorbed dose is _____.
10. Co-60 decays to _____.