

DRST

ANDHRA PRADESH PARAMEDICAL BOARD, VIJAYAWADA
COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, JANUARY, 2019
DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE
PAPER- II

General Physics Radiography Techniques & Medical Imaging

Time: 3 Hours
Answer any **TEN** questions

Total Marks:80
All Questions carry equal marks

Write the entire answer to a question at one place only but not in different stages

1. Write about HDR Brachytherapy and what are the advantages and disadvantages over LDR.
2. Write about mean, mode and median.
3. Discuss about various film processing methods.
4. Write about sterilization and how to sterilize Brachytherapy applicators.
5. What is Thermo Luminescent Dosimeter and its principle.
6. Explain various types of fractionation schedules practiced in radiotherapy.
7. What is HVL (Half Value layer)? Discuss about measurement of beam quality parameters.
8. What is Percentage Depth Dose? Discuss practical methods of calculating depth dose.
9. Write about Computed Tomography and its principle.
10. Write about electron beam therapy and its applications in cancer treatment.
11. Mention about radiation interaction surveys and various monitoring instruments.
12. Write about electromagnetic radiation.