

ANDHRA PRADESH PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2017

DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

PAPER II

General Physics, Radiography Techniques & Medical Imaging

Time: 3hrs.

Total Marks:80

Answer any **TEN** Questions

All Questions carry equal marks

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

1. Describe the principles of working of CT Scan, MRI and PET Scan. Discuss their advantages and uses in patient care.
2. Describe briefly a) Oxygen effect b) High LET Radiation.
3. What are Isodose Curves? Describe the methods of modifying Isodose Curves.
4. Describe various methods of Brachy therapy in treatment of cancer.
5. What are the various advanced Radiotherapy Techniques? Describe various methods of Gating.
6. Describe various types of Collimators and their advantages.
7. How do you go about planning of Radiotherapy for a patient with Ca. Prostate?
8. What are methods of administering Chemotherapy? Discuss the use of different methods.
9. Discuss methods of sterilization you would use in Radiotherapy Treatment Room.
10. Write about a) Simulation b) Beam verification.
11. Discuss Whole Blood Vs Component Transfusion.
12. Write about Hospital Acquired Infections
