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ANDHRA PRADESH PARAMEDICAL BOARD, VIJAYAWADA

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, JANUARY 2019

DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

PAPER- III

Radiation Therapy Physics, Radiation Hazards & Protection

Time: 3 Hours

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 about the harmful effects of radiation.
2. Explain radioactive decay & the decay constant.
3. What are the radioactive isotopes commonly used in cancer treatment. Discuss cs^{137} and ir^{192} .
4. Explain cervical cancer screening program. Brief note about about HPV vaccine.
5. Describe mammography.
6. Quality assurance of telecobalt unit.
7. Describe medical and radiotherapy emergencies in oncology practice. Write about superior vena caval obstruction.
8. Discuss advantages and disadvantages of radiotherapy/ surgery in cancer management.
9. Write about multidisciplinary management of cancer breast and the role of different therapists.
10. Describe about protection guidelines occupational and public dose limits.
11. Describe radiation monitoring instruments.
12. Simulator and its significance in R.T. planning.