

**Rajiv Gandhi University of Health Sciences**  
**First Year M.Sc [Radiation Physics] Degree Examination – OCT-2019**

[Time: 3 Hours]

[Max. Marks: 100]

**Quality Assurance, Calibration and Standardization in Clinical Dosimetry**  
**Q.P. CODE: 9804**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY****2 X 20 = 40 Marks**

1. Explain the calibration procedures for sealed Brachytherapy sources.
2. Enumerate the patient specific QA for 3DCRT using Ionization Chamber.

**SHORT ESSAY****6 X 10 =60 Marks**

3. Discuss about gas filled detector.
4. Explain methods of localizing tumor and its QA of conventional simulator.
5. Enumerate correction required for of beam quality, polarity, temperature and pressure
6. Discuss types of EPID.
7. Describe following
  - a) Condenser chamber and stem effect.
  - b) Exposure rate constant and source specification.
8. Discuss about obtaining of beam profiles and PDD using RFA.

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