

[LL 1017]

OCTOBER 2017

Sub. Code: 4015

**M.Sc. MEDICAL PHYSICS EXAMS
FIRST YEAR
PAPER V – RADIATION DETECTORS AND INSTRUMENTATION**

Q.P. Code : 284015

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss in detail about the Radiation field analyzer (RFA).
2. Explain the principle and function of MOSFET and describe its application in Radiotherapy.

II. Write notes on: **(10 x 6 = 60)**

1. Characteristics curve of the ionization detectors.
2. Condenser chamber.
3. Pocket dosimeter.
4. Optically Stimulated Luminescence Dosimeter (OSLD).
5. Chemical Dosimeter.
6. Radioisotope calibrator.
7. Neutron detector.
8. AC-DC converter.
9. Film badge.
10. Multichannel analyzer.
