

[LP 1019]

OCTOBER 2019

Sub. Code: 1804

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS
FIRST YEAR
PAPER IV – RADIATION SAFETY AND PROTECTION**

Q.P. Code : 281804

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Classify and discuss various biological effect of radiation.
2. Discuss the safe work practices in diagnostic radiology department to reduce patient exposure.

II. Write notes on:

(10 x 6 = 60)

1. Notes on radiation induced cancer.
2. What are the electronic dosimeters their usage in radiation survey?
3. What is ALARA concept?
4. Write short notes on radiation protection and need for protection of a pregnant radiographer.
5. Importance of X-ray beam collimation.
6. Write short noted in maximize shielding.
7. Radiation safety in Fluoroscopy.
8. Occupational radiation exposure.
9. What are the rest and recovery areas?
10. Chemical dosimeter.
