

[LN 1018]

OCTOBER 2018

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. Planning of X-ray room.
2. Personnel monitoring devices.

II. Write notes on:

(10 x 6 = 60)

1. Radiation units.
2. ALARA.
3. Biological effects of radiation.
4. AERB.
5. Quality assurance.
6. Radiation exposure control.
7. Protection in paediatric imaging.
8. Pregnancy NAD radiation.
9. RSO.
10. Radiation emergency.

[LO 0519]

MAY 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. Quality assurance.
2. Biological effects of radiation and prevention.

II. Write notes on:

(10 x 6 = 60)

1. MRI safety measures and safety zone.
2. ALARA.
3. Dosimeter.
4. AERB.
5. Radiation protection devices.
6. Protection in paediatric imaging.
7. TLD.
8. Pregnancy and radiation.
9. Responsibilities of RSO.
10. Radiation units and maximal permissible doses.

[LP 1019]

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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.
