

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY /
RADIO DIAGNOSIS TECHNOLOGY**

THIRD YEAR

Paper IV – QUALITY CONTROL IN RADIOLOGY

Q.P. Code: 801824

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Write in detail about quality control in image quality.
2. Explain the procedures of quality control in mammography.
3. Write in detail about the performance evaluation tests of CT.

II. Write Notes on:

(8 x 5 = 40)

1. Radiochemical purity.
2. Central beam alignment test.
3. Film and chemical storage.
4. Quality assurance record keeping.
5. Staggered autoradiography.
6. Total filtration.
7. Intrinsic resolution of gamma camera.
8. Measurement of CTDI.

III. Short Answers on:

(10 x 3 = 30)

1. Pinprick test for HDR brachytherapy.
2. Conversion factor.
3. Entrance skin exposure (ESE).
4. Write briefly about phantoms.
5. X-ray beam quality check.
6. Densitometer.
7. Film hangers.
8. Spatial linearity of Gamma camera.
9. Testing linearity of timer.
10. Kvp meter.
