

[LL 0817]

AUGUST 2017

Sub. Code: 1824

B.Sc. RADIOLOGY IMAGING 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. Describe in detail about the procedures of quality control in mammography.
2. Explain the different image quality tests in PET-CT.
3. Describe the quality control procedures in conventional radiography.

II. Write notes on: (8 x 5 = 40)

1. Write about different shielding materials.
2. Counting rate performance of Gamma camera.
3. Write about Quality assurance record keeping.
4. Explain the principles of radiation protection.
5. Write about temporal accuracy of timer.
6. Write about beam alignment and collimation.
7. Explain about Screen-film-cassette speed matching.
8. Explain the determination of focal spot size.

III. Short answers on: (10 x 3 = 30)

1. Explain the Gantry tilt assessment in CT.
2. Write briefly about Contrast sensitivity of fluoroscopy unit.
3. Explain the Timer linearity test.
4. What are Film clippers?
5. Explain about exposure switch.
6. Write about Sensitometer and its use.
7. Write about the tests for resolution in CT.
8. Write about tube voltage measuring device.
9. Use of pocket dosimeter.
10. Survey meter and its uses.
