

Total No. of Pages: 1

8186

Register Number:

Name of the Candidate:

DIPLOMA EXAMINATION, December 2014

(PARAMEDICAL SCIENCE IN RADIOLOGICAL ASSISTANCE)

110. RADIOLOGICAL PHYSICS, ANATOMY AND PHYSIOLOGY

Time: Three hours

Maximum: 100 Marks

SECTION-A

Answer any TEN questions

(10×5=50)

1. Write any five properties of X-Rays.
2. Discuss the Biological effects of Radiation.
3. Write briefly about the different types of Transformers.
4. Discuss about spin echo pulse sequence and its applications.
5. Instrumentation of a Mammography unit.
6. Discuss briefly the working principles of Thermo Luminescence Dosimeter.
7. Write briefly about Doppler Principles.
8. Explain the construction and working principle of an image intensifier.
9. Compton effect.
10. Air gap technique.
11. CT artifacts.
12. Construction of an intensifying screens.

SECTION-B

Answer any TEN questions

(10×5=50)

13. Describe the skull bones and sutures.
14. Anatomy of cervical spine.
15. Describe the physiology of lungs.
16. How the urine is formed?
17. Write about the Female Reproductive System.
18. Write about the components of Blood.
19. Blood supply of Liver.
20. Describe the various joints with examples.
21. How many quadrants are there in abdomen and explain.
22. Write about the systolic and diastolic function of the heart.
23. Describe the parts of long bone with diagram.
24. Name the wrist bones.
