

Register No.:

**750**

**April 2024**

*Time – Three hours*  
*(Maximum Marks: 100)*

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.  
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. What is capacitor discharge unit?
2. List out the limitations of cordless mobile X-ray units.
3. List the types of dental radiography equipments.
4. What is the principle of mammography?
5. Write the advantages of computed radiography.
6. What is image acquisition in digital radiography?
7. What is fluoroscopy?
8. List the factors affecting the fluoroscopic image.
9. What is computed tomography?
10. List the types of detectors used in computed tomography.

[Turn over.....

PART – B

11. (a) Explain the principle and working of mobile intensifier units.  
(Or)  
(b) Discuss the various factors to be considered while selecting mobile/portable X-ray machine.
12. (a) Explain intra oral radiography unit with a neat sketch.  
(Or)  
(b) Explain the working of mammography equipment with a neat sketch.
13. (a) Explain the working of computed radiography (CR) with necessary diagrams.  
(Or)  
(b) Explain digital spot imaging in digital radiography with neat block diagram.
14. (a) Explain the working of an image intensifier tube with necessary diagrams.  
(Or)  
(b) Discuss the working of cathode ray tube with a neat sketch.
15. (a) Explain the working of computed tomography equipment with a neat sketch.  
(Or)  
(b) Discuss about the data acquisition in CT scanners with necessary diagrams.

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