



SNS COLLEGE OF ALLIED HEALTH SCIENCES COIMBATORE –35
(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)
B. Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
2024 BATCH
INTERNAL EXAMINATION – II
(25.06.2025)



**PAPER I – RADIOGRAPHY EQUIPMENTS, MAINTENANCE AND
QUALITY CONTROL RELATED TO X-RAY ONLY**

QP. Code : 801843

Year: First Year

Time: 3 hours

Maximum: 100 marks

Answer all the questions

I. Elaborate on

3 x 10 = 30

1. Describe with neat diagram, construction of X-ray mammography equipment.
2. Describe in detail, intraoral dental radiographic unit and orthopantomography x-ray unit.
3. Describe in detail about Tomography.

II. Write notes on

8 x 5 = 40

1. Principle of mammography.
2. High frequency generator.
3. Mammographic cassette and film.
4. Intraoral Dental X-ray unit.
5. Theory of X-ray Tomography
6. Multisection tomography
7. OPG x-ray unit.
8. Principle of image formation in a mammography unit.

III. Short answers on

10 x 3 = 30

1. Properties of tungsten.
2. OPG.
3. Anode heel effect.
4. Digital mammography.
5. Photostimulable luminiscence.
6. Dental x-ray film.
7. Types of tomographic movement.
8. List down the factors that affect the image in tomography.
9. How will you improve the quality of mammographic image?
10. **I) What is the primary purpose of a panoramic radiograph in dental radiography?**
(2020)

- A. To evaluate individual tooth caries
- B. To provide a comprehensive view of the entire upper and lower jaw
- C. To assess salivary gland function
- D. To diagnose temporomandibular joint arthritis

II) Which of the following is a standard view in a screening mammogram? (2021)

- A. Axial view
- B. Craniocaudal (CC) view
- C. Sagittal view
- D. Transverse view

III) Which of the following imaging procedures uses the lowest radiation dose? (2024)

- A. Dental panoramic radiography
- B. Screening mammography
- C. Chest CT scan
- D. Conventional tomography