



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Sc.(MRIT)-2022

Course Name – Radiographic Techniques of Mammography, DEXA, Oral
Radiography with Image Interpretation

Course Code - BMRITC301

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Explain how is the anode-heel effect addressed in mammography X-ray tubes
 - a) By increasing the tube current
 - b) By using a larger focal spot size
 - c) By placing the thickest part of the breast at the anode end
 - d) By applying additional filtration
- (ii) Identify the primary purpose of mammography
 - a) Detection of lung diseases
 - b) Assessment of bone density
 - c) Screening and diagnosis of breast cancer
 - d) Examination of the gastrointestinal tract
- (iii) Identify the modalities used for dental radiography
 - a) EBCT
 - b) HRCT
 - c) CBCT
 - d) All of these
- (iv) Identify the type of dental radiograph provides a comprehensive view of both upper and lower jaws in a single image.
 - a) Bitewing radiograph
 - b) Periapical radiograph
 - c) Panoramic radiograph
 - d) Occlusal radiograph
- (v) Which of the following is the most common technique to measure the bone density?
 - a) USG
 - b) MRI
 - c) DEXA
 - d) All of these
- (vi) Select the correct statement about Bitewing radiographs
 - a) Useful in monitoring the progression of Periodontal disease.
 - b) Useful in monitoring the progression of Orthodontic treatment.
 - c) Useful in monitoring the progression of Root canal therapy.
 - d) Useful in monitoring the progression of Dental implants.
- (vii) Choose the modalities used in bone density measurement
 - a) QCT
 - b) QUS
 - c) DEXA
 - d) All of these

- 10. Write short not on DEXA equipment. (5)
- 11. Distinguish between Direct and Indirect Digital Mammography (5)
- 12. Discuss the challenges and limitations of breast biopsy procedures. (5)

OR

Explain routine mammography projection with patient position technique. (5)
