

N.A



## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MRIT)-2021

Course Name – Clinical Radiography Positioning Part 2

Course Code - BMRIT402

( Semester IV )

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) select the correct option to demonstrate atlas and axis in AP projection, the patient is asked to
- |                     |                               |
|---------------------|-------------------------------|
| a) Breathe normally | b) Close the mouth            |
| c) Open the mouth   | d) Move the head side-to-side |
- (ii) select the highest point of the skull in the median sagittal plane is
- |             |           |
|-------------|-----------|
| a) Glabella | b) Vertex |
| c) Nasion   | d) Inion  |
- (iii) Identify dental Formulas for permanent teeth are
- |              |              |
|--------------|--------------|
| a) 2122/2122 | b) 2103/2123 |
| c) 2123/2123 | d) 2023/2023 |
- (iv) select correct option, stereoscopic image also called
- |                              |                  |
|------------------------------|------------------|
| a) 3D imaging                | b) 2D imaging    |
| c) 2D imaging and 3D imaging | d) None of these |
- (v) select the right answer; BI-RADS stands for
- |   |                                  |
|---|----------------------------------|
| a) Breast Imaging-Reporting and Data System | b) Breast Image-Reporting System |
| c) Blood Imaging-Report Data System         | d) none of these                 |
- (vi) Select which type of tissue would result in a low attenuation mammographic image?
- |                     |                    |
|---------------------|--------------------|
| a) fatty            | b) fibro fatty     |
| c) fatty connective | d) Glandular fatty |
- (vii) select the correct option, only epiphysis present at birth in skeleton is: -
- |                         |                         |
|-------------------------|-------------------------|
| a) Upper end of humerus | b) Lower end of humerus |
| c) Lower end of femur   | d) Upper end of femur   |
- (viii) select the category VI in Birads classification refers to
- |              |                      |
|--------------|----------------------|
| a) Malignant | b) Proved malignancy |
| c) Benign    | d) Probably Benign   |

- (ix) select correct option; one mobile equipment uses  
 a) two 12 volt car batteries  
 b) one 12 volt car batteries  
 c) three 12 volt car batteries  
 d) four 12 volt car batteries
- (x) identify the option to comply with health and safety legislation, staff cleaning surgical instruments by hand must wear  
 a) goggles and an apron  
 b) gloves and an apron  
 c) nitrile gloves  
 d) a face mask
- (xi) The destruction of all micro-organisms and their spores can be defined as:-  
 a) Disinfection  
 b) Antisepsis  
 c) Asepsis  
 d) Sterilisation
- (xii) identify which term describes the primary center for ossification of long bones?  
 a) Epiphysis  
 b) Epiphyseal plate  
 c) Diaphysis  
 d) Metaphysis
- (xiii) identify what all equipment is present in an ambulance? i. Defibrillator ii. Patient Monitor iii. Ambulatory Pump iv. Splint v. Cervical Collars  
 a) i, ii, iii  
 b) ii, iii, iv  
 c) i, ii, iii, iv, v  
 d) i, ii
- (xiv) choose the correct option, Medico legal autopsy required the permission of  
 a) Relatives  
 b) Medical Superintendent  
 c) Police  
 d) Magistrate
- (xv) choose the right option; a doctor should not take fees for issuing certificate  
 a) To a govt. employee  
 b) Death certificate  
 c) Poor patient  
 d) Psychiatric patient

**Group-B**

(Short Answer Type Questions)

3 x 5=15

2. Explain indication, patient positioning, centering and technical factors for occipito-frontal view of skull? (3)
3. Explain Stereoscopic radiography. (3)
4. Write a short note on high-kV/low-mAs technique? (3)
5. Write a short note on immobilization device? (3)
6. Write a short note on Pigg-O-stat? (3)

**OR**

- Write a short note on T score and Z score. (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Write a short note on BI-RADS. (5)
8. Explain positioning, centering, technical factors, structure and evaluation criteria for submento-vertical view (supine)? (5)
9. Write a note on ward radiography in detail? (5)
10. Write a note on tomography in detail? (5)
11. Describe the indication, patient positioning, centering, technical factors, structure and evaluation criteria for Caldwell view? (5)
12. Explain the responsibilities of a radiographer during ward radiography? (5)

**OR**

- Explain mammography and its type with the help of diagram. (5)

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