LIBNARY Brainware University Barasat, Kolkata -700125





BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(MRIT)-2023 Course Name - Clinical Radiography-Positioning Part II Course Code - BMRITC401 (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 Which of the following paired bone is present in the skull
 - a) Frontal

- b) occipital
- c) perital d) Sphenoid (ii) Choose to demonstrate positioning for towns in AP projection the central ray is
 - a) 25-30 degree caudally

directed towrads.

- c) 25-30 dergee cranially

- b) 30-45 degree caudally
- d) 25-30 degree cranially
- (iii) Choose to demonstrate position for Caldwell in PA projection the central ray is directed.
 - a) 15 degree caudally

b) 25 degree caudally

c) 25 degree cranially

- d) 30 degree cranially
- (iv) Choose in reverse towne's (PA) projection the central ray is at.
 - a) 30 degree cephalic

- b) 30 degree cranially
- c) Can give both (a) and (b) projections
- d) 15 degree cephalic
- (v) tell in Macroradiography is often used for the examination of:

b) Microorganisms

c) Semiconductor material

- d) Alloys
- (vi) Select in macroradiography, what does the term contrast refer to?
 - a) The sharpness of the image
- b) The difference in density between different areas of the object
- c) The brightness of the image
- d) The ability to distinguish between different materials
- (vii) Select Which imaging modality is commonly used for performing a skeletal survey?
 - a) MRI (Magnetic Resonance Imaging)
- b) CT (Computed Tomography)
- c) PET (Positron Emission Tomography)
- d) X-ray (Radiography)
- (viii) Select Which of the following structures should appear symmetrically on a neonatal chest radiograph?

LIBRARY Brainware University Barasat, Kolkata -700125





BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(MRIT)-2023 Course Name - Clinical Radiography-Positioning Part II Course Code - BMRITC401 (Semester IV)

Full Marks: 60

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

=15

	(Multiple Choice	ce Type Question) 1 x 15	=
L.	Choose the correct alternative from the following :		
(i)	Select Which of the following paired bone is present in the skull.		
(ii)	a) Frontal c) perital Choose to demonstrate positioning for town directed towrads.	b) occipital d) Sphenoid s in AP projection the central ray is	
(iii)	a) 25-30 degree caudallyc) 25-30 dergee cranially) Choose to demonstrate position for Caldwel	b) 30-45 degree caudally d) 25-30 degree cranially l in PA projection the central ray is directed.	
(iv)	a) 15 degree caudallyc) 25 degree cranially) Choose in reverse towne's (PA) projection th	b) 25 degree caudally d) 30 degree cranially e central ray is at.	
(v)	a) 30 degree cephalicc) Can give both (a) and (b) projectionstell in Macroradiography is often used for th	b) 30 degree cranially d) 15 degree cephalic e examination of:	
(vi)	a) Bones c) Semiconductor material	b) Microorganisms d) Alloys	

- a) The sharpness of the image b) The difference in density between different areas of the object
 - c) The brightness of the image d) The ability to distinguish between different materials
- (vii) Select Which imaging modality is commonly used for performing a skeletal survey?
 - a) MRI (Magnetic Resonance Imaging) b) CT (Computed Tomography) c) PET (Positron Emission Tomography) d) X-ray (Radiography)
- (viii) Select Which of the following structures should appear symmetrically on a neonatal chest radiograph?

	a) Heart	b) Ribs		
v	c) Lungs	d) All of these		
(ix)	Choose What is the preferred imaging modality for evaluating suspected pneumothorax in a neonate?			
	a) Ultrasonography	b) Magnetic Resonance Imaging (MR	RI)	
	c) Computed Tomography (CT)	d) Fluoroscopy		
(x)	Select Which radiographic finding is indicative of respiratory distress syndrome (RDS) in a newborn?			
	a) Ground-glass opacities	b) Air bronchograms		
	c) Bilateral pulmonary infiltrates	d) Surfactant deficiency		
(xi)	Tell In skeletal radiography, what does the tern	n Density refer to?		
	a) The thickness of bone	b) The brightness of the image		
	c) The amount of radiation absorbed by the	d) The size of the bone		
/	bone			
(XII)	Select What is the purpose of using contrast ag			
	a) To increase radiation exposure	b) To highlight soft tissue structures		
(viii	c) To enhance visualization of blood vessels	d) To improve visualization of bone f		
(XIII	Choose Which imaging modality is preferred to skeletal trauma?	or assessing soft tissue injuries alongsid	e	
		1) 440		
	a) Skeletal radiography	b) MRI		
(viv	c) Ultrasound Choose Which imaging technique is commonly	d) CT scan		
(XIV)	tumours or lesions during surgery?	used for intraoperative localization of		
	a) Ultrasound	b) X-ray		
, ,	c) CT scan	d) PET scan		
(XV)	Tell Intraoperative MRI is often used in neurosi	urgical procedures to.		
	a) Monitor blood pressure changes	b) Detect bone fractures		
	c) Obtain real-time imaging of brain structures	d) Assist in suturing wounds		
	March 10			
		up-B	2 5 . 15	
	(Short Answer T	ype Questions)	3 x 5=15	
2. Explain What is the purpose of foreign body radiography? (3)				
3. Describe What is an invertogram and how is it performed?				
4. Define What is the primary purpose of performing neonatal radiography?				
5. Write down the indication, centering for fronto-occipital projection?				
6. E	laborate common techniques used in foreign bo		(3)	
D	efine What is an OPG and what is its primary ap	R	(2)	
U	enne what is an OPG and what is its primary ap	plication in dentistry?	(3)	
	Crox			
	(Long Answer T	up-C	5 x 6=30	
	(Long Answer)	ype Questions)	3 X 0-30	
7.	Explain in detail radiation protection and rapid p	processing technique?	(5)	
Explain in detail radiation protection and rapid processing technique? Explain advanced trauma in details?		(5)		
9. Write down the indication, patient positioning, centering and technical factors for (5)				
	occipitomental view with anatomy ?			
	Explain in detail the patient positioning and cen	tering of lateral decubitus Xray with	(5)	
	technical factors and anatomy?	viole, the analytical property	THE SHART	
	Illustrate radiography of mandible x-ray?	Junear on processors of the public	(5)	
12.	Explain briefly OPG X-ray with a labelled diagran		(5)	
	Company of the William Company of the Company	R		

(5)

Erainware University
Barasat, Kolkata -700125