



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Sc.(MRIT)-2021

Course Name – Modern Radiological & Imaging Techniques including Patient Care Course Code - BMRIT403

(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

- Choose the correct alternative from the following :
- (i) Hot air oven sterilization was introduced by
 - a) Louis Pasteur

b) Hounsfield

c) Sheldinger

- d) Tesla
- (ii) Which of the following sterilzation technique following in food and dairy farm
 - a) Pasteurization

b) Boiling

c) Autoclave

- d) None of these
- (iii) Which of the following equipment used to deliver contrast media effectively in angiography procedure?
 - a) Catheter

b) Syringe

c) Pressure Injector

d) CT equipment

- (iv) Attenuation is defined as
 - a) Reduction of intensity of beam
- b) Increasing the intensity of beam

c) Penetration of beam

d) Absorption of beam

- (v) What is a faint?
 - a) A response to fear.

- b) An unexpected collapse.
- c) A brief loss of consciousness.
- d) A sign of flu
- (vi) What is required before you perform hand hygiene except?
 - a) Remove bracelets

- b) Rings should not have jewels or stones
- c) Fingernails shoud be short
- d) Assess hands for visible soil.
- (vii) The process of study of blood vessels using contrast media is termed as
 - a) Angiography

b) Angioplasty

c) Both 1&2

- d) None of these
- (viii) Statement A: A reservoir is any site where a pathogen can survive until its transfer to a host. Statement B: Humans, animals, birds, and arthropods are all common reservoirs and do not always manifest illness due to the pathogen they are harboring
 - a) Statement A is true

b) Statement B is true

c) Both statements are true

d) Both statetements are false.

(ix)	ix) Select the mode of spreding infection, related to bacteria			
	a) Contact	b) Airborn		
	c) Droplet	d) All of these		
(x)	(x) Statement A: Clostridioides difficile is a germ (bacteria) that causes life-threatening			
diarrhea. Statement B: It is usually a side-effect of taking antibiotics.				
	a) Statement A is true	b) Statement B is true		
	c) Statement A is true while B is the correct	d) Both statements are false		
	statement of A.			
(xi)	I-Ventilator-associated pneumonia is a lung infection that develops in a person who is			
on a ventilator. II- An infection may occur if germs enter through the tube and get into				
the patient's lungs. III- A ventilator is a machine that is used to help a patient breathe				
by giving oxygen through a tube placed in a patient's mouth or nose				
	a) I is true	b) II is true		
(vii)	c) III is true	d) I,II & III true.		
(^11)	Identify the factors affecting sterilization by hea			
	a) Nature of heat	b) Nature of micro organism		
(viii)	c) Number of microorganisms Select the correct statement	d) All of these		
(2111)				
	a) Spinal injections are performed either to	b) These injections are performed und	er	
	confirm a suspected diagnosis or to reduce pain and inflammation	fluoroscopy by an interventional		
	c) Both 1 & 2 true	radiologist.		
(xiv)	CABG stands for	d) Both 1 & 2 false.		
	a) coronary artery bypass graft	h) condice out on hills I		
	c) cancer of bone growth	b) cardiac artery bilialry gasd) None of these		
(xv)	Choose the ideal feature of catheter in terms of	ontimal result in interventional		
	procedure	optimal result in interventional		
	a) chandles a second	h) should be adequate size and above		
	^{a)} Should be a traumatic tip	b) should be adequate size and shape targat	to the	
	c) should be soft and flexible	d) All of these		
	Grou			
	(Short Answer Ty	rpe Questions)	3 x 5=15	
2 × 2-13				
2. Distinguisgh between dry heat and moist heat sterlization.3. Describe the term disinfection (3)				
3. Describe the term disinfection				
4. Explain the types of contrast media with example.				
5. Define baloon angioplasy with their use.6. Explain antiseptic lotion and their use.			(3)	
O. L/			(3) (3)	
Ex	OF splain different mode of administration of bacter	{	(3)	
	promise and mode of administration of pacter	ial infection.	(3)	
	Commo	_	(5)	
	Grou	p-C		
	(Long Answer Ty	pe Questions)	5 x 6=30	
7. Summarize Situations Where First Aid is Required.				
o. Express the term radiology contrast reaction				
5. Describe Myelography in details				
10. Explain the physical method of sterlization				
11. How staffing effect radiology service quality? Explain.				
		nam,	(5) (5)	

12. Summarize the PPE Used to prevent infection control in medicine.	
OR	
Summarize bacterial infection.	(5)
