## B.Sc. (Radiology & Imaging Technology) Sem-VI (CBCS-2019 Course) Summer-2022 SUBJECT:-Quality Assurance in Radio Imaging

Day	: Tue	esday	Time: —
Date	02-	08 2022 5-22551-2022	Max. Marks: 20
N.B.			
	1)	There are three sections as Section-A= Objective Type questions - 20 m	anke
		Section-B= Long Answer questions - 20 m	
		Section-C=Short Answer questions - 20 m	
	2)	Section A is given in <b>SEPARATE</b> sheet and has to be an	
		sheet. This sheet should be completed within the first 20 i	minutes of the
	3)	Supervisor. Section B has three long questions and ANY TWO quest	ions have to be
	υ,	answered.	
	4)	Section C has six short questions and ANY FOUR questi	ons have to be
	<b>=</b> )	answered.	
	5)	You have to make ☑ such kind of mark in the box of the	appropriate answers.
Seat	N0.:		
		SECTION-A	
M.(	C.Q.		
1)	X-rays	are	
	a) [	Stream of electrodes	
	b) [	Stream of positively charged particles	
	c) [	Electromagnetic radiations of high frequency	
	d) [	Stream of uncharged particles	
2)	X-rays	are discovered by	
	a) [	Becquerel	
	b) [	Roentgen	
	c) [	Marie Curie	
	d) [	Von Lane	
3)	Photog	raphs made with x rays are known as	
	a) [	X-graphs	
	b) [	Gamma-graphs	
	c) [	Radiographs	
	d) [	Scanned graphs	
4)	In phot	o-chemical process, the rays which provide better resolution	are
	a) [	Infrared	
	b) [	Visible Light	
	c) [	UV light	
	d) [	X-rays	РТО

5)	Electronic Portal Imaging Device (EPID) in radio-therapy is used for
	a) Treatment planning
	b) Treatment verification
	c) CT simulation
	d) Conventional simulation
6)	Lymphatics of breast drain into
	a) Posterior intercostal lymph nodes
	b) Axillary lymph nodes
	c) Internal mammary lymph nodes
	d) All of the above
7)	TLD stands for?
	a) Thermo Luminescent Dosimeter
	b) Top level domain
	c) Thermo dosimeter
	d) All of the above
8)	In radiology department, walls are coated with
	a) Lead
	b) Glass
	c) Tungsten
	d) Iron
9)	Contrast used for MRI
	a) GDPA
	b) Radium
	c) Iridium
	d) TDT
10)	Ionizing Radiation have
	a) Short wavelength / high frequency
	b) Short wavelength / short frequency
	c) Long wavelength / high frequency
	d) Long wavelength / short frequency
Total	marks obtained: Signature of Invigilator:
	Signature of Examiner:

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## BACHELOR OF SCIENCE (RADIOLOGY & IMAGING TECHNOLOGY) (CBCS-2019 COURSE) B.Sc. (R&IM) Sem-VI :SUMMER- 2022 SUBJECT : QUALITY ASSURANCE IN RADIO IMAGING

Day: Tuesday

Time: 10:00 AM-12:00 PM

Date: 2/8/2022

S-22551-2022

Max. Marks: 4-0

N.B.

1) There are three sections as

Section-A= Objective Type questions - 20 marks. Section-B= Long Answer questions - 20 marks.

Section-C=Short Answer questions - 20 marks.

3) Section B has three long questions and **ANY TWO** questions have to be answered.

4) Answer to both the sections should be written in **SAME** answer book.

## **SECTION-B**

Long answer (attempt ANY TWO)

(20)

- 1) Discuss briefly the PCPNDT Act.
- 2) Discuss the safety precautions which should be followed while working in radiology department.
- 3) Discuss briefly various radiation protection devices.

## **SECTION-C**

Short answer (attempt ANY FOUR)

(20)

- 1) Waiting time in radiology.
- 2) Patient privacy in radiology and its importance.
- 3) Inspection and storage of lead aprons.
- 4) Importance and monitoring of TLD badges.
- 5) Enlist any five condition for which a critical value alert is sounded in MRI.
- **6)** Effects of Radiation.

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