## BACHELOR OF SCIENCE (RADIOLOGY & IMAGING TECHNOLOGY) (CBCS-2019 COURSE)

COURSE)
B.Sc. (R&IM) Sem III: WINTER: - 2021
SUBJECT: BASIC IMAGING

Day: Thursday Date 17-02-2022		ime: 10:00 AM-12:00 PM lax. Marks: 60
N.B.:	Section – B : Long Answer Questions : 2	0 marks 0 marks 0 marks
2)	Section – C. Short Answer Questions . 2 Section A is given on <b>SEPARATE</b> sheet and has to be This sheet should be completed within first <b>20</b> minute examination. The sheet with section A will be collected of 20 minutes.	e answered on <b>SAME</b> sheet. s of starting of the
3)	You have to make ☑ such kind of mark in the box of	the appropriate answers.
Seat No	SECTION – A	
M.C.Q's		
1.	All of these increase spatial resolution in CR except:	
a)	Smaller plate	ļ
b)	Larger pixel size	
c)	Thinner phosphor plate	4
d)	Reduced phosphorous lag	
2.	The disadvantage of CSI over Gadolinium oxysulphide i	S
a)	Better resolution	
b)	Fragile	
c)	Efficient X-ray absorption	
d)	Better quantum efficiency	
3.	Gadolinium oxysulphide is a	
a)	Photoconductor	,
b)	Unstructured photoscintillator	
c)	Photo stimulable phosphor	
d)	Activator	!
4.	In which format are radiological images obtained and are	chived?
a)	DICOM	
<b>b</b> )	JPEG	
c)	PDF	
d)	XPG	

5.		LASE	K is used iii.	
	a)		Conventional radiography	
	b)		DR system	
	c)		CT	
	d)		Dry film imaging	
6.		X – ra	y film can be converted into digital format with h	nelp of:
	a)		CR	
	b)		DR	1
	c)		Film screen system	
	d)		Digitizer	
7.		Long	distance tele-reporting is possible because of:	
	a)		DICOM	
	b)		HMIS	
	c)		RIS	
	d)		PACS	
8.		Detec	tion of over-exposure is difficult in CR due to:	I
	a)		Plate readout by LASER	
	b)		Poor image quality	İ
	c)		Quantum mottle	1
	d)		Post-processing	
9.		Autor	matic stitching is useful in:	
	a)		Chest radiography	
	b)		Abdomen radiography	
	c)		Hip radiography	
	d)		Whole spine radiography	
10.		What	kind of characteristic curve does CR have?	
	a)		Linear wide latitude	
	b)		Non-linear wide latitude	
	c)		Linear narrow latitude	
	d)		Non-linear narrow latitude	
Total	Ma	rks Ob	tained :	Signature of Invigilator Signature of Examiner

\* \* \* \*

## BACHELOR OF SCIENCE (RADIOLOGY & IMAGING TECHNOLOGY) (CBCS-2019 COURSE) B.Sc. (R&IM) Sem III: WINTER:- 2021

## **SUBJECT: BASIC IMAGING**

Thursday <b>17-02-2022</b>	W-22512-2021	Time: 10:00 AM-12:00 PM Max. Marks: 60	
N.B.: 1) 2) 3)	There are <b>THREE</b> sections as  Section – A : Objective Type Questions : 20 marks  Section – B : Long Answer Questions : 20 marks  Section – C : Short Answer Questions : 20 marks  Section B has four long answer questions and any <b>TWO</b> questions have to be answered.  Section C has six short answer questions and any <b>FOUR</b> questions have to be		
4)	answered.  Answers to both the sections should be written in <b>SAME</b> answer book.		
	SECTION – B		
	Long Answer Question:		
	Attempt ANY TWO of the following:	[20	
a)	Write in detail about components of PACS.		
b)	<ul> <li>Write in short about following innovations in digita</li> <li>i) Automatic image stitching</li> <li>ii) Dual energy imaging</li> <li>iii) Wireless flat panel detector</li> <li>iv) Tomosynthesis</li> </ul>	al radiography:	
c)	Write in detail about DR system.		
d)	Write a short note on DICOM.		
	SECTION – C		
	Short Answer Questions:		
	Attempt ANY FOUR of the following:	[20	
a)	Write in short about CR system.		
<b>b</b> )	Write in short about dry films.		
c)	Discuss differences between conventional radiogra	phy, CR and DR system.	
d)	Write in short about advantages and disadvantages of PACS.		
e)	Write in short about detectors in DR system.		
	State some advantages of DR system.		