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

Day: Thur Date 24-02		W-21582-2021	Time: 10:00 AM-12:00 PM Max. Marks: 10	
$\overline{N. E}$	3. :			
1112	1)	There are THREE sections as Section – A – Objective Type Questions Section – B- Long Answer Questions	10 marks 20 marks 10 marks	
	2)	Section – C – Short Answer Questions Section A is given SEPARATE sheet and has This sheet be completed within the first 20 mi The sheet with Section A only will be collected	s to be answered on SAME sheet. nutes of starting of the examination.	
	3) 4)	You have to mark ☑ such king of mark in the There is no negative marking.	box of the appropriate answers.	
Seat	t No.	SECTION - A		
MC	CQ's:			
1)		Which of the following enzymes is increase	ed in myocardial infarction?	
	a) [Creatine kinase (CK-MB)		
	b) [☐ Alanine transaminase		
	c)	☐ Lipase		
	d)	☐ Acid phosphatase		
2)	skiller.	Cholesterol is transported for liver to peripl	neral tissues by	
	a) [□ VLDL		
	b) [□ LDL		
	c)	☐ HDL		
	d) [☐ Chylomicrons		
3)		Proteins synthesis occurs in which of the fo	llowing cellular organelle?	
	a) [☐ Golgi Apparatus		
	b) [Nucleus		
	c)	☐ Endoplasmic reticulum		
	d)	Lysosomes	÷	
4)		Vitamin D is produced from which of the fo	ollowing compound?	
	a) [Cholesterol		
	b) [] Lecithin		
	c)	☐ Triacylglycerol		
	d) [7 Wax		

5)			Which of the following is an example of contractile	e protein?
	a)		Hemoglobin	
	b)		Collagen	
	c)		Histone	
	d)		Myosin	
6)			The product of heme breakdown is	
	a)		Amino acids	
	b)		Bilirubin	
	c)		Fatty acids	
	d)		Glucose	
7)			Transport of molecules against concentration gradi	ent is known as
	a)		Facilitated diffusion	
	b)		Osmosis	
	c)		Exocytosis	
	d)		Active transport	
8)			All of the following are plasma proteins EXCEPT	
	a)		Keratin	
	b)		Albumin	
	c)		Globulin	
	d)		Fibrinogen	
9)			Adult hemoglobin (HbA ₁) is composed of	
	a)		$\alpha_2\gamma_2$	
	b)		$\alpha_2\beta_2$	
	c)		$\alpha_2 \epsilon_2$	
	d)		$\alpha_2\delta_2$	
10)			All of the following are essential amino acids, EXO	CEPT
	a)		Glycine	
	b)		Methionine	
	c)		Phenylalanine	;
	d)		Lysine	
Γotal	Mar	ks obta	ined:S	ignature of Invigilator
			S	ignature of Examiner

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W-21582-2021

Time: 10:00 AM-12:00 PM

Max. Marks: 30

N. B.:

1) There are THREE sections as

Section – A – Objective Type Questions

10 marks

Section – B- Long Answer Questions

20 marks

Section – C – Short Answer Questions

10 marks

- 2) Section **B** has four long answer questions and **ANY TWO** questions have to be answered.
- 3) Section C has Six short answer questions and ANY FIVE questions have to be answered.
- 4) Section B and C should be written in **SAME** answer sheet.
- 5) Draw neat diagrams wherever necessary.

SECTION - B

Long answer questions: (Any TWO)

(20)

- 1) Define carbohydrates. Classify them giving suitable examples.
- 2) Describe the chemistry, sources, Recommended Daily Allowance (RDA), functions and deficiency manifestations of vitamin A.
- 3) Describe the factors affecting the rate of enzyme activity.
- 4) Describe the structures and functions of DNA and RNA.

SECTION - C

Short answer questions: (Any FIVE)

(10)

- 1) Mitochondria
- 2) Phospholipids
- 3) Functions of calcium
- 4) Immunoglobulins
- 5) Jaundice
- 6) Blood buffers

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