

## PAR-1603120102020500 Seat No. \_\_\_\_\_

## M. Sc. (Biochemistry) (Sem. II) (CBCS) Examination August / September - 2020

## CBC-5: Human Physiology and Endocrinology

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Time: 2.30 Hours] [Total			s : <b>70</b>
1	Answer briefly any seven of the following question		14
	(1)	Write functions of external and internal nose.	
	(2)	State the significance of zymogen secretion durin	g
		digestion.	
	(3)	Definitions: Peristalsis, Cholelithiasis	
	(4)	Draw only figure: internal anatomy of kidney	
	(5)	Give the classification of nervous system	
	(6)	Enumerate various disorders of stomach. Write in brie	$\mathbf{ef}$
		about peptic ulcers.	
	(7)	Explain Henry's law.	
	(8)	Brief introduction about motor unit	
	(9)	How thyroid hormone synthesis is controlled?	
	(10)	Explain biphasic effect of glucose.	
2	Ansv	wer any two of the following questions:	14
	(1)	Discuss the lung volumes and capacities with Spirogram	1.
	(2)	Give composition of salivary, gastric and intestina	ıl
		secretions with their functions.	
	(3)	Explain in brief about neuromuscular junction.	
3	(1)	Give an overview of smooth muscle tissue.	7
	(2)	Write down hormonal regulation of blood pressure.	7
		OR	
3	(1)	Describe mechanism of gastric juice secretion.	7
	(2)	Discuss in detail: Buffer system of the body for	7
		maintenance of acid and base balance.	
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- 4 Answer the following questions:
  - (1) Which are the layers of GI tract? Explain in detail with diagram.
  - (2) Describe the effects of insulin and glucagon.
- 5 Answer the following questions: (Any Two)

**14** 

**14** 

- (1) Enlist various parts of an ear. Briefly discuss role of middle ear and explain physiology of hearing with necessary illustrations.
- (2) Write a note on introduction and functions of hormones from posterior pituitary.
- (3) Describe the reproductive hormones of males and females along with their functions and regulation by hypothalamus.
- (4) Draw and briefly discuss about the different waves of electrocardiogram.