

## ND-1807000101030001

## First Year B.H.M.S. Examination

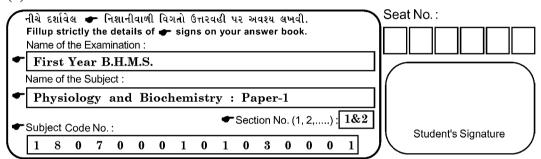
February - 2022

Physiology and Biochemistry: Paper-1

Time: 3 Hours] [Total Marks: 100

## **Instructions:**

**(1)** 



- (2) Write in neat handwriting.
- (3) Figures to the right indicate full marks.
- (4) Write both section separately.

## Section-I

Name the Plasma, Proteins. Describe them in detailwith note on their function.

OR

Define Blood Groups. Name the different types of Blood 15 Groups. Explain Rh factor and write in detail about Rh Incompatibility.

Define heart rate, what is Marey's Law & Bainbridge
Reflex. Name the various factors affecting Heart Rate.

OR

	(a)	Renin-Angiotensin Mechnism of Blood Pressure	8
		Regulation.	
	(b)	Draw a neat labeled diagram of Cardiac cycle.	7
3	Write Short Notes on (Any Three)		
	(1)	Functions of Lymph	
	(2)	Ribosomes	
	(3)	Baroreceptors and Chemoreceptors	
	(4)	ESR	
	(5)	Nucleus	
4	Ans	wer the following	5
-	(a)	Life Span of RBC is	J
	(b)	Normal Cardiac Cycle time is	
	(c)	Define packed cell volume.	
	(d)	Name the types of Endoplasmic Reticulum.	
	(e)	is called as power house of cell.	
		Section-II	
5	Des	cribe in detail mechanics of Breathing.	15
		OR	
5	Des	cribe $\mathrm{CO}_2$ Carriage in detail.	15
6	Des	cribe Tubular Reabsorption and Tubular secretion	n in 15
	deta	ail.	
		OR	
6	Wri	te.	
	(1)	Normal constituent of urine.	8
	(2)	Abnormal Constituents of Urine.	7
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7	Write short notes on : (Any three)		
	(a)	JGA	
	(b)	Alveoli	
	(c)	Hypoxic Hypoxia	
	(d)	Thermogensis	
	(e)	Rigor Mortis	
8	Write the following		
	(1)	Total volume of air remains in lungs after normal expiration is	
	(2)	Hypoxia is due to lack of cytochrome oxidase of cells.	
	(3)	Melanin pigment of skin protects against rays of sun.	
	(4)	Full form of REF.	
	(5)	Normal GFR value is ml/minute.	