FIRST B.H.M.S EXAMINATION - 2017 - JAN PHYSIOLOGY & BIOCHEMISTRY PAPER - I (New Syllabus)

-		3 Hours
	ructions: ttempt all questions from each section	
2. Fi	gures to the right indicate full marks	
3. Di	raw figure wherever necessary.	
	rite separate sections on separate answer sheets.	
0.1	Section I	
Q-1	Define blood pressure. Which are the blood regulatory mechanisms? What is role of kidney t maintain blood pressure? OR	o 15
Q-1.	Describe classification of WBC with their morphological characteristics in brief. Explain functions of WBC in detail.	15
Q-2	Define cardiac cycle. Divisions of cardiac cycle. Describe each events of it with pressure and volume changes in detail. OR	15
Q-2	a. Define erythropoiesis. Describe stages of erythropoiesis in detail.	08
	b. Define ECG. Describe ECG leads in detail.	07
Q-3	Write short notes (any three)	15
	a. Lymph node b. Surface Tension	
	c . Plasma proteins d. Thymus Gland	
	e. Factors regulating cardiac output	
Q-4	Give answer in one to two sentences.	05
	a. Define passive transport and its two examples.	
	b. Define Bombay blood group.	
	c. What is full form RNA? Enumerate types of it.	
	d. What is the significance of an enlarged P & Q wave?	
	e. Define acidosis. Which are the types of acidosis?	
	Section II	
Q-1	Explain the transport of CO_2 by the blood in detail. OR	15
Q-1	Define GFR. Its normal value. Describe factors affecting on glomerular filtration rate.	15
Q-2	Describe in detail physiology of Micturation. OR	15
Q-2	a. Respiratory pressure	08
	b. Define nephron. Types of nephron. Describe histology of nephron.	07
Q-3	Write short notes (any three)	15
	a. Pulmonary functions test	
	b. JGA	
	c. Significance of O ₂ -Hb dissociation curve	
	d. Glands of skin	
	e. Saltatory conduction	
Q-4	Give answer in one to two sentences.	05
	a. Define surfactant. What is composition of it?	
	b. Enumerate only names of respiratory centers.	
	c. Which hormone stimulates tubular reabsorption and secretion by principal cells?	
	d. What is shivering?	
	e. Define resting membranes potential.	