UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION FOR MEDICAL DEGREES 2 -August - 2019 Physiology: Paper II

Date: 24.08.2019

Time: 03 hours

ANSWER ALL THE **TEN** QUESTIONS

1.	Desc	cribe the role of following organs in maintaining production / destructi	On		
	of re	ed cells:	OII		
	1.1.	Kidney	(25 Montes)		
	1.2.	Stomach	(25 Marks)		
	1.3.	Spleen	(45 Marks)		
			(30 Marks)		
2.	Describe the following:				
	2.1.	Diffusion of oxygen in alveoli			
	2.2.	Transport of carbon dioxide	(40 Marks)		
	2.3.	Change in blood all daming to the control of the co	(40 Marks)		
	2.5.	Change in blood pH during hyperventilation	(20 Marks)		
3.	Desc	ribe the effects of stimulation of the following of			
٠.	Describe the effects of stimulation of the following efferent nerves supplying the heart:				
	3.1.				
	3.2.	Left vagus nerve	(25 Marks)		
		Right vagus nerve	(25 Marks)		
	3.3.	Sympathetic nerves	(50 Marks)		
)		
4	_	*			
4.	Desci	ribe the physiological basis of the following:			
	4.1.	Cardiac output increases in people with transplanted heart (without	it (50 Marks)		
		innervation to the heart) during physical exercise			
	4.2.	QRS complex is prolonged in ECG of patients with bundle branc	h (50 Manlan)		
		block	h (50 Marks)		
5.	Describe the physiological basis of the following:				
	5.1.	Blood pressure is reduced in deficiency of aldosterone	(20) (1)		
	5.2.	Secretion of breast milk increases when baby is put to breast	(30 Marks)		
	5.3.	Excess secretion of growth hormona loads to did to discuss the secretion of growth hormona loads to did to discuss the secretion of growth hormona loads the secretion o	(30 Marks)		
		Excess secretion of growth hormone leads to diabetes mellitus	(40 Marks)		
6.	Descri	ibe the following:			
	6.1.	Swallowing			
	6.2.	Defecation	(50 Marks)		
	0.2.	Detecation	(50 Marks)		
7.	Explai	n·			
	7.1.				
	7.2.	Glomerular filtration and the factors affecting it	(50 Marks)		
	1.4.	Concentrating the urine	(50 Marks)		

8.	Describe:			
	8.1.	The changes occurring in a male during puberty	(50 Marks)	
	8.2.	Amenorrhea of pregnancy	(25 Marks)	
	8.3.	The weight gain during pregnancy	(25 Marks)	
1				
9.	Describe briefly:			
	9.1.	Two-point discrimination	(25 Marks)	
	9.2.	Withdrawal reflex	(25 Marks)	
	9.3.	Knee jerk	(25 Marks)	
	9.4.	Sleep-apnoea	(25 Marks)	
10.	Describe briefly:			
		Myopia and its correction	(30 Marks)	
	10.2.		(40 Marks)	
	10.3.	Function of semicircular canals	(30 Marks)	