

UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION FOR MEDICAL DEGREES –May 2019 Physiology: Paper II

Date: 23.05.2019 Time: 03 hours

ANSWER ALL THE **TEN** QUESTIONS

ANSW	ILK AL	E THE TEN QUESTIONS			
1.	Descri 1.1. 1.2.	be the physiological basis of the following: Patients with Liver cirrhosis are at risk of severe haemorrhage Patients, whose terminal half of small intestine is removed for some surgical complication, are at risk of developing anaemia.	(50 Marks) (50 Marks)		
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2.	Describe:				
2.	2.1.	The role of pleural fluid in respiration	(25 Marks)		
	2.2.	The role of surfactant in respiration	(25 Marks)		
	2.3.	Transport of oxygen in blood	(50 Marks)		
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3.	Describe briefly the effects of the following drugs on the heart:				
	3.1.	Beta blockers	(35 Marks)		
	3.2.	Nicotinic receptor blockers	(30 Marks)		
	3.3.	Calcium channel blockers	(35 Marks)		
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4.	Describe the physiological basis of the following:				
	4.1.	Old people are likely to faint if they get up from bed in a hurry	(30 Marks)		
	4.2.	Victims of road traffic accident are likely to bleed more on hot	(30 Marks)		
		days than on cool days			
	4.3.	Cardiac output is increased in thyrotoxicosis	(40 Marks)		
5	Dagari	ha tha anti-marafi			
5.		be the actions of:	(50 M - 1 -)		
	5.1.	Insulin	(50 Marks)		
	5.2.	Cortisol	(50 Marks)		
6.	Describe:				
0.	6.1.	Gastric emptying	(30 Marks)		
	6.2.	Control of pancreatic secretion	(40 Marks)		
	6.3.	Glucose absorption in intestine	(30 Marks)		
	0.5.	oracose absorption in intestine	(50 Marks)		
7.	Describe:				
	7.1.	Glomerular filtration	(30 Marks)		
	7.2.	The effect of severe haemorrhage on glomerular filtration	(40 Marks)		
	7.3.	Risk of intra vascular haemolysis to renal function	(30 Marks)		
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8.	Describe the physiological basis of the following:				
	8.1.	Semen clots on ejaculation	(25 Marks)		
	8.2.	Vasectomy does not affect ejaculation	(25 Marks)		
	8.3.	Progesterone tablets inhibit ovulation	(25 Marks)		
	8.4.	The baby stimulates ejection of milk	(25 Marks)		
9.	Describe the physiological basis of the following:				
	9.1.	Patients with appendicitis complain of pain around umbilicus	(30 Marks)		
	9.2.	Patients with lesion in Wernicke's area have difficulty in talking	(30 Marks)		
	9.3.	Adequate sleep is important for growth of children	(40 Marks)		
10.	Describe:				
10.	10.1.	Visual acuity	(50 Marks)		
	10.1.	Perception of sound in internal ear	(50 Marks)		
	10.2.	refeeption of sound in internal car	(20 Marks)		