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

Date: 05.02.2019 Time: 03 hours

ANSWER ALL THE **TEN** QUESTIONS

1.	Explair 1.1. 1.2. 1.3.	Patients with right heart failure will have swelling of both legs Varicose veins in the right leg causes swelling of the right leg Patients who had malignancy and right inguinal lymph nodes are removed as part of surgery develop swelling of the right lower limb	(35 Marks) (30 Marks) (35 Marks)
2.	Explain 2.1. 2.2.	n the physiological basis of the following: Analysis of blood is helpful in identifying iron deficiency Reticulocyte count indicates the response to treatment of anaemia	(50 Marks) (50 Marks)
3.	Explai 3.1. 3.2.	n: Mechanics of breathing Development of cyanosis in severe lung infection	(50 Marks) (50 Marks)
4.	Descri 4.1. 4.2.	be: Normal ECG and correlate it with normal cardiac events Regulation of blood pressure	(50 Marks) (50 Marks)
5.	Expla 5.1. 5.2. 5.3.	in the physiological basis of the following: Patients with hypothyroidism may have high TSH levels Patients with diabetes mellitus are always hungry Wound healing is poor in patients with excess glucocorticoids	(35 Marks) (30 Marks) (35 Marks)
6.	Descr 6.1. 6.2.	ibe: Gastric emptying Absorption of fat in intestine	(50 Marks) (50 Marks)
7.	Write 7.1. 7.2.	notes on: Functions of the kidney Adipose tissue	(50 Marks) (50 Marks)
8.	Desc 8.1. 8.2. 8.3.	ribe: Pubertal changes in males Weight gain in pregnancy Ovulation	(50 Marks) (25 Marks) (25 Marks)

9. Describe the transmission of impulses to the cortex from the following receptors:

9.1.	Pain in right index finger	(30 Marks)
9.2.	Taste buds in the left side of the tongue	(30 Marks)
9.3.	Temporal half of right retina	(40 Marks)

10. Write notes on:

1,1110 110100 0111	
10.1. Sleep	(50 Marks)
10.2. Functions of Hypothalamus	(50 Marks)

