## UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

First Year First Semester Examination in BScHons (MLS)-2022

## MLSPM 1143 PHYSIOLOGY FOR MLS Ì PAPER II

Date:04.12.2023		Time: 2 hours	Cibs.
Date:04.12.2023 Time: 2 hours  Answer all the six questions.			
1.	Expla	in the physiological basis of edema in:	FACULTY
	1.1	Lymphatic obstruction	(50 Marks)
	1.2.	Right heart failure	(50 Marks)
2.	Expla	ain the significance of following investigations in clinical practice:	
	2.1.	ESR	(25 Marks)
	2.2.	Bleeding time	(25 Marks)
	2.3.	Total white cell count with differential count	(50 Marks)
3.	B. Describe:		
	3.1.	The mechanism of regulation of body temperature in response to	
		cold	(50 Marks)
	3.2.	Excitation- contraction coupling in skeletal muscle	(50 Marks)
4.			
7.	4.1.	List the factors affecting gas exchange in the lungs	(20 Marks)
	4.2.	Briefly explain the physiological basis of reduced PO <sub>2</sub> in	
		pulmonary edema	(40 Marks)
	4.3.	Briefly explain the basis of hypoxia in CO poisoning	(40 Marks)
5.			
	5.1.	Explain the factors affecting cardiac output	(50 Marks)
	5.2.	Explain the physiological basis of the changes in blood pressure during moderate physical exercise	(50 Marks)
6.	Explain the physiological basis of the following:		

Cardiac output decreases when heart rate goes above 200/minute

PR interval increases in ECG when stimulating right vagus nerve (30 Marks) Elderly people may faint when they getup from the bed suddenly (40 Marks)

6.2.

6.3.

(30 Marks)