UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

First Year First Semester Examination in BScHons (MLS) - 2021 MLSPM 1143 PHYSIOLOGY FOR MLS I - PAPER II

Date: 12.12.2022

ANSWER ALL THE SIX QUESTIONS.

1.	1.1. 1.2.	Describe tissue fluid formation and reabsorption A child is admitted with diarrhoea. Her serum Na is 128mEq/L.	(40 Marks)
	1.2.1.	Explain the mechanisms by which serum Na will be brought to normal level.	(50 Marks)
	1.2.2.	Name one suitable fluid for oral therapy and one fluid for intravenous therapy.	(10 Marks)
2.	Briefly 2.1. 2.2. 2.3.	describe the basis of the following: Increased MCV in vitamin B ₁₂ deficiency Prolonged clotting time in liver disease Rh negative mothers should be given anti-D injection immediately after delivering a Rh positive baby.	(30 Marks) (30 Marks) (40 Marks)
3.	Briefly 3.1. 3.2.	describe the following: Action potential in nerves Maintenance of body temperature in cold environment	(50 Marks) (50 Marks)
4.	4.1. 4.2.	Describe the changes in pleural pressure during quiet breathing. List the types of hypoxia.	(40 Marks) (20 Marks)
	4.3.	Briefly explain the physiological basis of increased respiratory rate in pulmonary oedema.	(40 Marks)
5.	5.1. 5.2.	Name the phases of cardiac cycle Describe the pressure changes in the left ventricle during a	(20 Marks) (40 Marks)
	5.3.	cardiac cycle. Briefly explain the factors affecting cardiac output.	(40 Marks)
6.	Explain the physiological basis of the following:		
	6.1. 6.2. 6.3.	Heart rate of 120 / minute in a patient with haemorrhage. Increased pulse pressure in pregnancy Decreased risk of ischaemic heart disease in individuals who are physically active from young age	(40 Marks) (30 Marks) (30 Marks)