## UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION FOR MEDICAL DEGREES 2 – January- 2020 OF MEDICAL Physiology: Paper II

Date:	22.01.2020	Time: 03 hours
ANSV	WER ALL THE <b>TEN</b> QUESTIONS	
1.	Describe the role of red cells in the following functions:  1.1. Transport of oxygen  1.2. Transport of carbon dioxide	(50 Marks) (50 Marks)
2.	Describe the physiological basis of the following: 2.1. Lungs collapse in pneumothorax 2.2. No tissue fluid formation in pulmonary capillaries 2.3. Hyperventilation causes vertigo	(30 Marks) (40 Marks) (30 Marks)
3.	Describe the physiological basis of the following: 3.1. Emotional shock can result in cardiac arrest 3.2. Injection of adrenalin results in increased cardiac output 3.3. Patients with damaged AV node have bradycardia	(30 Marks) (40 Marks) (30 Marks)
4.	Write notes on: 4.1. Blood pressure 4.2. Coronary circulation	(50 Marks) (50 Marks)
5.	Describe the physiological basis of the following: 5.1. Increased sweating in patients with hyperthyroidism 5.2. Increased hunger in patients with insulin resistance 5.3. High risk of fracture of bones in patients with hyperparathyroidis 5.4. Wasting of muscles in patients treated with high dose of predniso	
6.	Describe the physiological basis of the following: 6.1. Dehydration causes bad smell from the mouth 6.2. Fatty food delays gastric emptying 6.3. Low fiber diet causes constipation	(40 Marks) (30 Marks) (30 Marks)
7.	Describe: 7.1. The effect of increased angiotensin II on glomerular filtration 7.2. The effect of reduced ADH on urine production	(50 Marks) (50 Marks)
8.	Describe the physiological basis of the following:  8.1. Emotional upset can cause impotence  8.2. If a male child starts secreting large amounts of adrenal androgen testicles do not develop as in normal puberty  8.3. Fluid retention in pregnancy	(30 Marks) n, the (40 Marks) (30 Marks)

## 9.

- Describe briefly: 9.1. Receptive field
- 9.2. Motor unit
- Inverse stretch reflex 9.3.
- Micro sleep 9.4.

## 10.

- Describe briefly: 10.1. Blind spot
- 10.2. Binocular vision
- 10.3. Visual acuity



(30 Marks) (30 Marks)

(40 Marks)