UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION FOR MEDICAL DEGREES -NVEMBER-2015 Physiology: Paper II

Date:	25.11.2020		Time: 03 hours
ANSWER ALL THE TEN QUESTIONS			
1.	Descri 1.1. 1.2. 1.3.	be: Tissue fluid formation and reabsorption Oedema formation in right heart failure Oedema formation in lymphatic block in left inguinal region	(40 Marks) (30 Marks) (30 Marks)
2.	Write 1 2.1. 2.2.	notes on: Anaemia Blood groups	(50 Marks) (50 Marks)
3.	Descri 3.1. 3.2. 3.3.	be: Chemical control of respiration The change in respiration in diabetic ketosis The effect of open pneumothorax in respiration	(50 Marks) (25 Marks) (25 Marks)
4.	Descri 4.1. 4.2. 4.3.	be: The spread of impulse in the heart The change in ECG when AV node is completely non-functional Change in ECG in left ventricular hypertrophy	(50 Marks) (25 Marks) (25 Marks)
5.	Explai 5.1. 5.2. 5.3. 5.4.	n the physiological basis of the following: Cardiac output decreases when heart rate goes above 200 / minute During physical exercise, motor cortex gets more blood supply Skin blood flow increases during heavy physical exercise In the fetus, upper body is well developed when compared to lo part of the body	(25 Marks) (25 Marks) (25 Marks) ower (25 Marks)
6.	Explai 6.1. 6.2. 6.3. 6.4.	n the physiological basis of the following: Serum potassium is increased in diabetic coma Thyroid gland enlarges in iodine deficiency Face appears more reddish in Cushing's disease In adrenogenital syndrome, secondary sexual characteristics develout the testicles remain at infantile state	(25 Marks) (25 Marks) (25 Marks) elop (25 Marks)
7.	Descri 7.1. 7.2.	be: Vomiting Defecation	(50 Marks) (50 Marks)

8. Describe: Medical Library 30 Marks) Glomerular filtration 8.1. 8.2. 30 Marks) Excretion of acid in renal tubule (40 Marks) Concentrating urine 8.3. 9. Explain the physiological basis of the following: 9.1. In menstrual cycle, duration of proliferative phase is variable but (40 Marks) secretary phase is constant 9.2. Fertilization leads to arrest of menstruation (30 Marks) (30 Marks) 9.3. Semen clots on ejaculation Describe: 10. Receptive field in skin (25 Marks) 10.1.

10.2.

10.3.

Motor unit

Sleep apnoea 10.4. Fovea Centralis in eye (25 Marks)

(25 Marks)

(25 Marks)