UNIVERSITY OF RUHUNA



FACULTY OF MEDICINE

Second Examination for Medical Degrees PHYSIOLOGY - Paper II

02nd July 2015

Time: Three hours

Answer all five (05) questions. Use a separate book for each quest	Answer all five	ve (05) question	i. Use a separate book	for each question.
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1.0		,	
1.1	Describe physiological mechanisms activated in mild exercise which will incresupply to a muscle tissue.	ease blood (40 Marks)	
	A patient is defected to have autonomic neuropthy and his baroreceptor herve impaired considerably. Compare the changes that would occur in the cardiovas this patient during mild exercise with those of a normal person.		
1.3	An anaemic patient can develop ischemic chest pain easily compared to norma Explain the reason briefly.	il person. (20 Marks)	
2.0			
2.1	What is central cyanosis?	(10 Marks)	
2.2	Explain different conditions which can cause central cyanosis.	(20 Marks)	
2.3	Describe the role of chemoreceptors in the regulation of respiration.		
2.4	Describe the role of non-chemical influences on regulation of respiration.	(30 Marks)	
3.0			
3.1	Describe five different functions of intestinal bacteria in a healthy individual.	(50 Marks)	
3.2	Briefly describe the various mechanisms which can cause maldigestion and m		
	food.	(50 Marks)	
4.0	Name hormones (two each) and describe their role in the regulation of		
	4.1 blood pressure.	(25 Marks)	
	4.2 blood glucose level.	(25 Marks)	
	4,3 blood Ca ⁺² level.	(25 Marks)	
	4.4 lactation.	(25 Marks	
5.0	Give physiological explanations for the following		
5.1	Patients with bone marrow suppression are susceptible for infections.	(30 marks)	
5.2	Disturbances in micturition is a feature of spinal cord damage.	(40 marks	
5.3	A girl who attained menarche around six years of age has been investigated to possibility of a brain tumour.	exclude the (30 marks)	