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UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES DEPARTMENT OF PHARMACY FIRST BPHARM PART I EXAMINATION – JULY 2018 PH 1144 HUMAN BIOLOGY I (SEQ)

TIME: THREE HOURS

INSTRUCTIONS

- There are six questions in parts A, B, C, D, E, F, G and H of SEQ paper.
- Answer <u>each</u> part in a separate booklet.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

IARIA					
ms. Cajmeana gunio					
The left ventricle.	(10 marks)				
e pacemaker cells (ionic basis not required).	(10 marks)				
period of the myocardial cells.	(10 marks)				
1.2. Explain the importance of the diastolic time for normal cardiac function.					
ould take in order to obtain an accurate blood pressu	are reading.				
	(10 marks)				
1.4. Write three complications of untreated hypertension.					
paroreceptors help in compensation of hypovolaemi	c shock.				
	(20 marks)				
ciples in management of hypovolaemic shock.	(10 marks)				
PART B and onless self-to about a beta					
ats of the each gland mentoped in 5.2.					
1					
n in atmospheric air is 158 mmHg and when it reac	hes pulmonary				
out 100 mmHg. Explain this physiologically.	(15 marks)				
ds to collapse of alveoli in some patients. Explain the	his				
intrauterine development from ovidation to birth	(15 marks)				
	Describe briefly the				
es of carbon dioxide transport in blood.	(30 marks)				
	pould take in order to obtain an accurate blood pressures of untreated hypertension. paroreceptors help in compensation of hypovolaemic aciples in management of hypovolaemic shock. PART B en in atmospheric air is 158 mmHg and when it reaction to the count 100 mmHg. Explain this physiologically. Indicate the content of the country				

PART C

3.

3.1. Explain how

3.1.1. steatorrhoea occurs in common bile duct obstruction.

2.4. Describe the role of chemoreceptors in regulation of respiration.

(40 marks)

(40 marks)

3.1.2. histamine two blockers (H₂-blockers) are useful in treating peptic ulcers.

(35 marks)

PART D

3.2. Describe different types of ion channels which have different regulatory processes. (25 marks) 4.1. 4.1.1. List functions of proteins in the cell membrane. (10 marks) 4.1.2. Describe briefly two of the functions mentioned in 4.1.1. (20 marks) 4.2. Explain the differences between simple diffusion and facilitated diffusion. (20 marks) PART E 4.3. 4.3.1. Define the term 'anaemia'. (10 marks) 4.3.2. What is pernicious anaemia? (10 marks) 4.3.3. Give two causes for microcytic anaemia. (10 marks) 4.4. 4.4.1. What is haemostasis? (10 marks) 4.4.2. State the functions of platelelts in haemostasis. (10 marks) 5. 5.1. Describe the basic structure of the gastro intestinal system using a labeled diagram. (50 marks) 5.2. What are the associated glands of the gastro intestinal system? (20 marks) 5.3. Describe the functions of the each gland mentioned in 5.2. (30 marks) 6. 6.1. State basic steps in intrauterine development from ovulation to birth. (25 marks) 6.2. Describe briefly the first week of embryological development. (10 marks) 6.3. Describe briefly the structure of fluid mosaic model. (15 marks) PART H 6.4. Skin is the continuous outer covering of the body. 6.4.1. Draw a labeled diagram of the skin of the scalp. (20 marks) 6.4.2. List the functions of the skin. (10 marks)

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(20 marks)

6.4.3. Describe the adaptation of the structure of the skin for its function.