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UNIVERSITY OF RUHUNA – FACULTY OF MEDICINE ALLIED HEALTH SCIENCES DEGREE PROGRAMME FIRST BPHARM PART I EXAMINATION – JULY 2016 PH 1144 HUMAN BIOLOGY I (SEO)

TIME: THREE HOURS

INSTRUCTIONS

- Answer all questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

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1. (change of a straight of the straight of th	
1.1	
1.1.1. What is adaptation of receptor?	(10 marks)
1.1.2. List functions of proteins in cell membrane.	(10 marks)
1	
1.1.3. Describe briefly the two functions mentioned above.	(20 marks)
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	0
1.1.4. Describe difference between simple diffusion and facilitated diffusion	(10 marks)
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y beauty and the	mater tacked ex.
1.2	Strate Bill Dari
1.0	
1.2.1. Name the factors involved in primary arresting of bleeding?	(10 marks)
Marco (II)	
1.2.2. Name one disease condition due to disorder of each factor you menti-	oned in 1.1.
	(10 marks)
processing and the second seco	
1.2.3. Briefly describe the secondary haemostasis.	(10 marks)
•	
1.2.4. Briefly describe two disease conditions belongs to acquired coagulat	ion disorders.
	(20 marks)

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Small (1) Therefore interesting and ye do	(10
2.1. What is external respiration?	(10 marks)
parado paraj aras, la incilio legamentones: ettoros lo recio	desage of a second of
Joseph P.G.	
2.2. What is internal respiration?	(10 marks)
and provide compression and the compression of	Harris as will seinesc in
Complete (Complete (Comple	ed aftern. Hi ne extraturazione
2.3. Explain the pressure changes in (a) lung and (b) intrap	eural space during inspiration
and during expiration.	(30 marks)
[10] C.	
1	
1	
	espiration. (20 marks)
2.4. Outline the role of chemoreceptors on regulation of re	espiration. (20 marks)
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3.	3.1.	Name four substances secreted by the stomach other than H ⁺ .	(10 marks)
	3.2.	Name three phases of regulation of gastric secretion and effect of each phas secretion.	e on acid (15 marks)
		and the contract of the contra	
		Describe how stomach wall is protected from acids in spite of having high concentration of H^+ in the lumen of the stomach.	(40 marks)
	3.4	Describe the basis of using histamine two (H2) receptor blockers in peptic	ulcer (35 marks
		disease.	

	Index no:
4.1. Describe the conduction system of the heart.	(20 marks)
4.2. Draw an action potential of a pacemaker cell and expl	ain the ionic changes that occur
during different parts of it.	(30 marks)
during different parts of the	
4.3. Explain what happens to pacemaker potentials during	vagal stimulation. (10 marks)
4.4. State two benefits of the diastolic time in cardiac cyc	le. (10 marks
4.5. Describe the role of baroreceptors in regulation of bl	ood pressure. (30 marks

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Inde	k no:
5.	
5.1. Describe briefly the basic tissue types found in human body.	(30 marks)
5.2. Describe the parts of the gastrointestinal tract.	(40 marks)
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1	
5.3. List the glands associated with gastrointestinal tract and give a bri	
each of them.	(30 marks)

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6.	
6.1.	
6.1.1. List the organelles of a eukaryotic cell.	(05 marks)
0.1.1. List the organismes of a cakaryone con-	
6.1.2 Write short notes on the following.6.1.2.1. The cell membrane of a eukaryotic ce	[]. (15 marks)
6.1.2.2. The nucleus of a eukaryotic cell.	(15 marks
6.1.2.3. Meiosis.	(15 marks

	Index no:
6.2. Heart is a hollow muscular organ located in the mediastinum	of the thoracic cavity.
6.2.1. Draw a labeled diagram to show the arrangement of the	e pericardium. (10 marks)
6.2.2. State the nerve supply of the pericardium.	
The same of the sa	
6.2.3. Liet the openings of the right strium	(05 marks)
6.2.3. List the openings of the right atrium	(05 marks)
6.2.3. List the openings of the right atrium	
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6.2.4. Name the coronary arteries and its main branches that	supplies to the heart. (05 marks)
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6.3. Skin covers the entire outer surface of the body.	
6.3.1. Draw a labeled diagram to describe the layers of the epidermis of	thick skin.
(58,989,55)	(15 marks)

6.3.2. State two differences between the thick skin and thin skin.	(06 marks)
6.3.2. State two differences between the thick skin and thin skin.	
6.3.3. Name four appendages of the skin.	(04 marks
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