University of Ruhuna- Faculty of Technology Bachelor of Biosystems Technology Honours

Bachelor of Biosystems Technology Honours Level 1 (Semester I) Examination, June/July 2023 Academic year 2021/2022

Course Unit: BST1152 Animal Physiology (Written)

Duration: 1 1/2 hour
Index no:
INSTRUCTIONS: Read the instructions carefully before answering the paper.
Number of pages: Three (3)
Write your index number in the space provided above.
Part I – Answer all the questions.
Part II - Answer only (2) questions
Mobile phones and calculators are not permitted.
Part I
1. The following questions are based on the various organ systems, their physiology in the
human body and associated components. Carefully read the given questions and
provide answers within the given space.
a) List out 3 physical properties of water and how each property is important for prope
body functioning (9 marks).
i
ii
iii
b) Name 3 types of extracellular fluids and the location of those fluids (9 marks).
ii
iii
c) Name any three (3) plasma proteins (3 marks).
i
ii

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ii										
iii	attack) zastelandi Santack 2014 februa									
e) Name three main salivary glands (3 marks).										
i										
ii 										
iii	AURIE DE DE CE									
diagram below (8 marks).	egions of the human stomach indicated in									
diagram serow (o marks).										
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g) Mention the age range of nube	rty of following farm animals (6 marks).									
B)	in the state of th									
i) Cattle –										
ii) Sheep										
iii) Swine										
h) Name any three (3) polyestrous farm animals (6 marks).										
i)										
ii)										
-7										

the given

d) List out any 3 primary functions of the digestive tract (6 marks).

Part II

Answer only two questions.

2.	For effective absorption,	the surface	area of	the	intestinal	wall	has	been	increased	with
	structural modifications.									

a)

- i. Name any of the three above-mentioned modifications. (6 marks)
- ii. State three main regions of the small intestine. (6 marks)
- b) What is chemical digestion of foods? Describe the chemical digestion of food along the digestive system starting from the mouth. (13 marks)
- The circulatory system consists of blood vessels that include arteries, veins, and capillaries. These blood vessels, heart and lungs continuously circulate blood throughout the body.
 - a) Write any 4 functions of blood. (4 marks)
 - b) Describe warm blooded and cold-blooded animals with two examples for each category.
 (6 marks)
 - Describe how blood and material circulation occur in the heart, lungs, and main blood vessels.
 (15 marks)
- 4. Carnivores and omnivores possess a simple monogastric digestive system.
 - a) Describe the monogastric animals and ruminants with two examples for each category.
 (8 marks)
 - b) Name main compartments of the rumen. (4 marks)
 - c) Describe the rumination process and its' advantages. (13 marks)