THE OPEN UNIVERSITY OF SRI LANKA FACULTY OF HEALTH SCIENCES DEPARTMENT OF BASIC SCIENCES ACADEMIC YEAR 2020/2021 – SEMESTER 01 BACHELOR OF PHARMACY HONOURS



BSU3431 – HUMAN PHYSIOLOGY – LEVEL 03
FINAL EXAMINATION
DIDATION: THREE HOURS

THREE HOURS

(6 marks)

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Write answers in the space provided.

TIME:9.30 amto12.30 pm

Part B – STRUCTURED ESSAY QUESTIONS

(40 marks)

1. A) Draw and name the layers of the 'Respiratory membrane'.

	B) What is surfactant and state the importance of it in the lungs?	(4 marks)
2	A) List four (04) changes that occur during aging in the digestive system	(4 marks)
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B) Explain the basis of respiratory distress syndrome in a new-born ba	aby. (6 marks)
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	(10 1)
List the one (01) major function of following organelles.	(10 marks)
a) Ribosomes	
b) ER	
	• • • • • • • • • • • • • • • • • • • •
d) Mitochondria	
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e) Nucleus	
	List the one (01) major function of following organelles. a) Ribosomes b) ER c) Golgi apparatus

4. T	Define the followings	•
i.	Blood pressure	(2 marks)
ii.	Systolic blood pressure	(2 marks)
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iii.	Diastolic blood pressure	(2 marks)
iv.	Pulse pressure	(2 marks)
v.	Mean Arterial Pressure (MAP)	(2 marks)

IN	DEX	NO:	**********************
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Part C – ESSAY QUESTIONS

(30 marks)

1. (2 marks) What is a motor unit i. (7 marks) ii. Explain the structure of a typical neuromuscular junction Name hormones secreted by the adrenal cortex and one function for each of iii. (6 marks) the hormones 2. List three (03) functions of the human liver (3 marks) State two (02) common disorders in the liver and mention their causes ii. iii. Describe the adaptations in the small intestine for absorption of nutrients (8 marks)