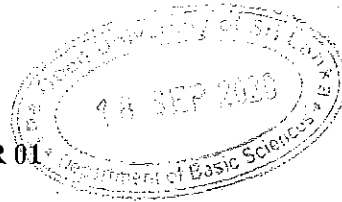


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**THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF BASIC SCIENCES  
ACADEMIC YEAR 2019/2020 – SEMESTER 01**



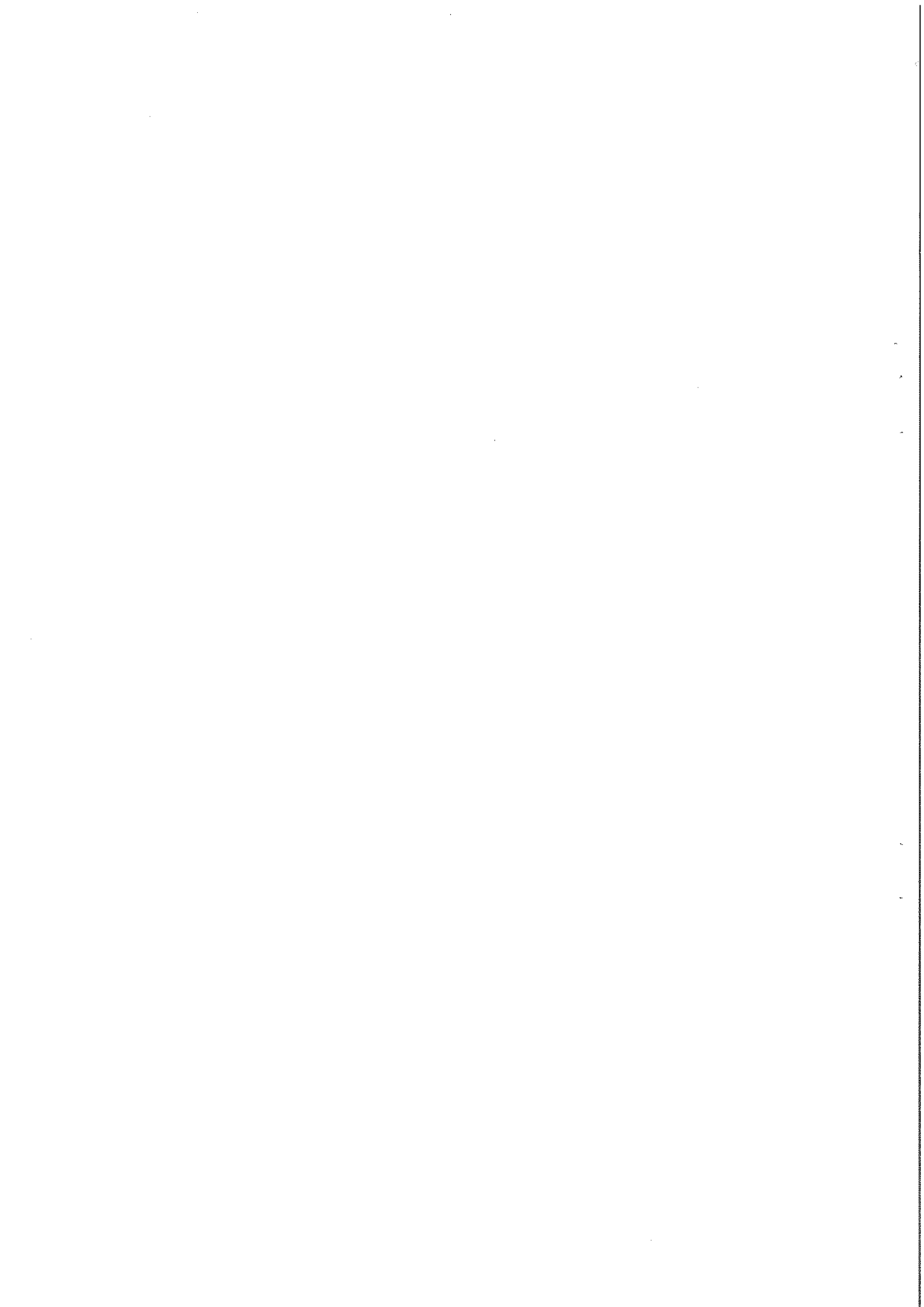
**BACHELOR OF PHARMACY HONOURS  
BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
BSU3230 – HUMAN ANATOMY – LEVEL 3  
FINAL EXAMINATION  
DURATION: TWO HOURS**

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DATE: 18<sup>th</sup> September 2020

TIME: 2.00 PM – 4.00 PM

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INDEX NO: .....

**Part B – Structured Essay Questions***(40 marks)***Write answers in the space provided.**

1. a) List one (01) function carried out by the following organelles in the body. (3 marks)

I. Mitochondria - .....

II. Golgi apparatus - .....

III. Lysosome - .....

b) List three (03) differences between mitosis and meiosis. (6 marks)

Mitosis	Meiosis
I.	
II.	
III.	

c) List the bones which makes up the thoracic cage. (5 marks)

I. ....

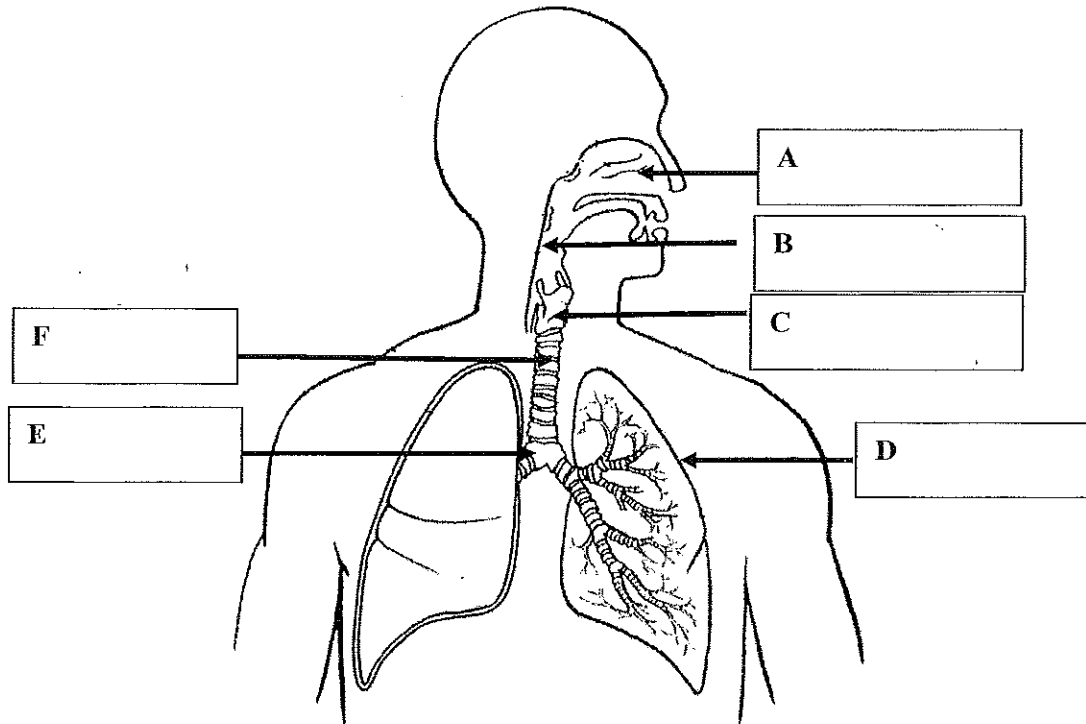
II. ....

III. ....

IV. ....

V. ....

- d) Following diagram shows the structure of the respiratory system. Identify the structures shown from A to F. (6 marks)



2. a) Identify the type of epithelium found in the following structures of the body. (6 marks)

Structure	Epithelium
I. Epidermis of the skin	
II. Trachea	
III. Blood capillaries	
IV. Small intestine	
V. Bladder	
VI. Alveolus	

b) Name three bones which makes human pelvis. (3 marks)

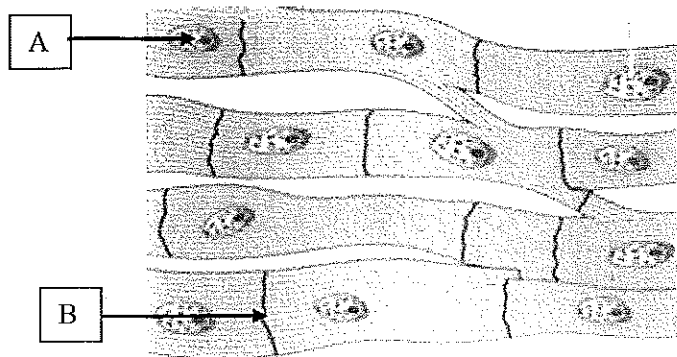
- I. ....
- II. ....
- III. ....

c) Name the endocrine organ that secrete following hormones. (4 marks)

- I. Glucagon- .....
- II. Calcitonin- .....
- III. Aldosterone- .....
- IV. Oxytocin- .....

d) I. Identify the structure shown below. (2 marks)

.....



II. Identify what is shown by A and B. (3 marks)

- A - .....
- B - .....

III. State the importance of the presence of **B** in this structure. (2 marks)

.....  
.....

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**Part C – Essay Questions**

*(40 marks)*

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**Answer all questions.**

**Write answers in the books provided.**

1. a) Draw a clearly labeled diagram to show the structure of a neuron. (5 marks)
- b) Briefly describe the adaptations of the small intestine for efficient absorption of nutrients. (15 marks)
2. Briefly describe the structure of the nephron by using a labelled diagram. (20 marks)