

**EXAMINATIONS**  
 Institute of Indigenous Medicine  
 28 APR 2022  
 25.05.2022  
 University of Colombo



**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO**  
**DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY**  
**FIRST PROFESSIONAL REPEAT EXAMINATION**

**APRIL – MAY 2022**

**A 1.1.5 – SHAREERA KRIYA PART II (PHYSIOLOGY AND BIOCHEMISTRY)**

**Date: 28.04.2022**

**Time: 09.45 AM – 12.15 PM**

**Index No**

**Answer all questions.**

**Part I - Structured Questions**

- 1.
  - a. Outline the process of inspiration at rest. (03 Marks)

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- b. List the following:
  - i) Three (03) factors that shift the oxyhaemoglobin dissociation curve to the left. (1.5 Marks)

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ii) Layers of respiratory membrane (1.5 Marks)

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c. Explain why Cyanosis occurs in Polycythaemia (02 Marks)

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2.

a. List the types of gastric mucosal cells along with their functions (03 Marks)

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b. Explain how pancreatic cells are protected from digestion by the enzymes produced by the pancreas (05 Marks)

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3. List the following:

a. Four (04) functions of basal ganglia (extrapyramidal system) (02 Marks)

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b. Four (04) functions of cerebellum (02 Marks)

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c. Four (04) signs of extrapyramidal disease (02 Marks)

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d. Four (04) signs of cerebellar disease (02 Marks)

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4.  
a. Describe briefly; what is atherosclerosis (02 Marks)

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b. Mention the site of formation of following lipoproteins in the body (03 Marks)

i) Chylomicron  
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ii) Very low density lipoprotein (VLDL)  
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iii) High density lipoprotein (HDL)  
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c. Briefly Mention the importance of High density lipoprotein (HDL) (03 Marks)

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5.

a. Mention one function of following cellular structures

(03 Marks)

i) Cell membrane

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ii) Golgi body

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iii) Smooth endoplasmic reticulum (SER)

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b. Describe briefly the absorption of glucose in the small intestine

(05 Marks)

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**Part II – Essay Questions**

1. Describe how carbon dioxide is transported by blood.

(20 Marks)

2. About 99% of the Sodium in the glomerular filtrate is reabsorbed throughout the renal tubule. Describe the different mechanism available for Sodium reabsorption. (20 Marks)

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