



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF UNANI MEDICINE AND SURGERY
FIRST PROFESSIONAL BUMS (2019/2020) EXAMINATION
OCTOBER - NOVEMBER 2022
U 1.1.5 – MANAFI UL AZA (PHYSIOLOGY AND BIOCHEMISTRY)

Date: 11.10.2022

Time: 02.45 P.M – 05.15 P.M

Answer all questions.

Index No

Part I - Structured Questions

1.

1.1 Mention the differences between cardiac sounds and cardiac murmurs. (01 Mark)

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1.2 Explain the mechanism of mitral stenosis murmur. (04 Marks)

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1.3 List four (04) causes of secondary systemic hypertension.

(02 Marks)

1.4 What is the function of chordae tendineae of the heart?

(01 Mark)

2.

2.1 Describe the stages of swallowing.

(03 Marks)

2.2 What are the mechanisms available to prevent the damage to pancreatic structures?

protein from digestion by its proteolytic enzymes?

(02 Marks)

2.3 Briefly describe the phases of gastric juice secretion. (03 Marks)

3. Explain the basis of the following.

3.1 In iron deficiency anaemia red blood cells (RBCs) are smaller than normal, whereas in folate deficiency RBCs are larger than normal. (02 Marks)

3.2 Erythropoietin (EPO) injections are given in the management of chronic kidney disease. (02 Marks)

3.3 Conduction of nerve impulses is quicker in myelinated nerve fibers than that of non-myelinated nerve fibers. (02 Marks)

3.4 Body Mass Index (BMI) of males is higher than that of females although their heights are equal. (02 Marks)

4.

4.1 Mention the name of transport system which helps enter glucose from blood into tissue cells. (02 Marks)

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4.2 Briefly describe the role of insulin with above transport system. (03 Marks)

4.3 Briefly mention the role of oxygen in the cellular respiration (ATP production).

(03 Marks)

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5.

5.1 Where is chylomicron synthesized in the human body? (02 Marks)

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5.2 Mention the role of High Density Lipoprotein (HDL) in the reduction of risk of atherosclerosis (02 Marks)

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5.3 Explain why sunflower oil and olive oil are not suitable for deep frying of foods. (04 Marks)

Part II – Essay Questions

1.

In an experiment, spinal cord hemi section was done at the level of cervical spinal segment four (C₄ level) on the right side.

Describe the abnormal signs (motor, sensory losses and reflexes) present in each upper limb and lower limb, giving the reasons (It is not necessary to indicate the signs related to cerebral and basal ganglions). (20 Marks)

2.

Describe the factors, affecting short term and long term control of the systemic blood pressure. (20 Marks)

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