



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO
DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY
FIRST PROFESSIONAL ANNUAL EXAMINATION
DECEMBER 2021 – JANUARY 2022
A 1.1.5 – SHAREERA KRIYA (PART II)

Date: 04.01.2022
 Time: 09.45 AM – 12.15 PM

Index No

Answer all questions.

Part I - Structured Questions

I. List the following

1.1 Methods of carbon dioxide transportation along with percentage carried by each method

(02 Marks)

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1.2 Three (03) factors that shift the oxyhaemoglobin dissociation curve to the right.

(02 Marks)

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1.3 Name three (03) groups of neurons of the respiratory center along with their functions.

(02 Marks)

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1.4 Describe the mechanism of process of inspiration.

(02 Marks)

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2.

2.1 Describe how baroreceptors immediate control of changes in systemic blood pressure (02 Marks)

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2.2 List two (02) other methods of immediate control of changes in systemic blood pressure.

(02 Marks)

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2.3 Explain the physiological basis of the following

2.3.1 A man wearing a tight neck tie complains of dizziness when turning neck.

(02 Marks)

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2.3.2 Haematocrit (HCT) / Packed Cell Volume (PCV) cannot be used to assess the amount of
blood loss immediately following a moderate blood loss.

(02 Marks)

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3.

3.1 List the following.

3.1.1 Four (04) types of glial cells present in the nervous system along with their functions.

(02 Marks)

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3.1.2 Types of fibres present in the pyramidal tracts along with their percentages. (02 Marks)

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3.2 Explain the basis of the following

3.2.1 When light is shone onto one pupil both pupils contracts.

(02 Marks)

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3.2.2 Velocity of impulse transmission is high in myelinated nerve fibers compared with non-myelinated fibres. (02 Marks)

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4.

4.1 Name two (02) enzymes which can elevate in blood after a myocardial infraction. (02 Marks)

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4.2 Explain briefly how lactic acidosis occurs in following pathological situations; (04 Marks)

4.2.1 Pulmonary embolism

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4.2.2 Severe hemorrhage

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4.3 Name the metabolic reaction which converts lactose in to glucose (02 Marks)

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5.

5.1 Name two (02) essential fatty acids (02 Marks)

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5.2 Describe briefly the adverse health effects of deep frying of foods in unsaturated fat (03 Marks)

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5.3 Briefly explain how saturated fatty acid increases atherosclerosis (03 Marks)

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Part II – Essay Questions

1. Describe the phases of the cardiac cycle. (20 Marks)
2. Describe the properties of hormonal effects. (20 Marks)
