



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Nursing
1st End Semester Examination – 2025 – 2022/2023 (16th) Batch
New Curriculum
NUR 1131- Biochemistry-SEQ

Date: 16th May 2025 Time: 10.30 a.m.-11.00 a.m. Duration: ½ hours

Index Number:

Answer all questions in the given space.

1.

1.1 Amino acids are essential for the functioning of the human body.

1.1.1 List five (05) characteristics of the amino acid structure (20 marks)

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1.1.2 List the three (03) main steps of amino acid metabolism. (15 marks)

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1.2. Nearly all biochemical reactions in living cells are facilitated by enzymes.

1.2.1 List the five (05) major classes of enzymes with their function. (10 marks)

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1.2.2 List five (05) factors affecting the enzymatic reactions (05 marks)

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1.3. The Pentose Phosphate Pathway is an alternative pathway for glucose metabolism.

1.3.1 List five (05) primary tissues where the Pentose Phosphate Pathway is most active.

(15 marks)

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1.3.2 List three (03) functions of Nicotinamide Adenine Dinucleotide Phosphate (NADPH).

(10 marks)

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1.3.3 Mr. Kasun was admitted to your ward with hematuria after taking the antimalarial drug "Primaquine". He was diagnosed with glucose-6-phosphate dehydrogenase (G6PD) deficiency. Briefly explain the biochemical basis of this reaction. (25 marks)

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