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FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Medical Laboratory Science
First End-Semester Examination – December 2023 – 2021/2022 Batch
Fundamentals in Cell Biology (MLS 1142) – SEQ

Date: 13th December 2023 Time: 10.30 a.m. – 11.30 a.m. Duration: 1 hour

Index Number:

Answer all questions.

01. 1.1 Compare and contrast peroxisomes and lysosomes. (20 marks)
- 1.2 List **four** characteristics of the peptide bond. (20 marks)
- 1.3 State **three** effects of protein denaturation. (15 marks)
- 1.4 Briefly explain serum protein electrophoresis. (20 marks)
- 1.5 Briefly explain the biological significance of glutathione. (25 marks)
02. 2.1 Explain what is meant by homopolysaccharides and heteropolysaccharides giving one example for each type. (15 marks)
- 2.2 Briefly describe the importance of cellulose as a dietary component in humans. (25 marks)
- 2.3 List **five** functions of lipids. (15 marks)
- 2.4 List **four** differences between fats and oils. (20 marks)
- 2.5 Briefly describe what synthetic nucleotide analogs are and their biomedical importance. (25 marks)

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