

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE GENERAL DEGREE LEVEL II (SEMESTER II)
EXAMINATION 2022 - JUNE

SUBJECT: Zoology

Time: 01 hours

COURSE UNIT: ZOO 2262 - Molecular Genetics and Biotechnology

Answer **any two** questions only.
Illegible handwriting would be penalized.

1. Mentioning common applications, describe the use of short tandem repeats (STR) for individual identification in human.

2. Answer **both** parts.
 - (i). Briefly describe the use of genetic markers for diagnosing human genetic diseases.

 - (ii). Discuss the Properties of an ideal molecular marker.

(Both parts will be given equal marks)

3. Describe the principle, method, and applications of the Single-Stranded Conformation Polymorphism (SSCP) technique.

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