

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE GENERAL DEGREE LEVEL II (SEMESTER II)
November/December 2016

SUBJECT: Zoology

Time: 01 hour

COURSE UNIT: ZOO 2262- Molecular Genetics and Biotechnology

English medium

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

1. Describe 'gene therapy' and discuss its risks and limitations.

2. Answer **both** parts.
 - (i) Briefly describe the DNA microarray technique and its usage in different fields.
 - (ii) Explain why short tandem repeat (STR) loci are most suitable for generating DNA fingerprints.

3. Describe 'Genetically modified organisms' (GMO), and discuss their negative impacts.

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