



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Medical Laboratory Science
Year End Examination, Year 3 – 2015/2016 (9th) Batch
MLS 3104 Biotechnology – SEQ

Date: 29th of March 2021
Answer all questions

Time: 10.15 a.m. – 11.15 a.m.

Duration: 01 hour

Index Number:

- 1. Enzymes are widely used in many biotechnological applications (Food & Brewing industry, Pharmaceutical industry, Paper & pulp industry.... etc.).
1.1 List four industrial enzymes and state their function. (20 marks)
1.2 Discuss advantages and disadvantages of use of enzymes in industries. (30 marks)
1.3 State two laboratory methods which are used for high resolution purification of enzymes. (10 marks)
1.4 Describe one of the methods mentioned in 1.3. (40 marks)
2.
2.1 What is meant by a transgenic? (05 marks)
2.2 Name three transgenic techniques. (15 marks)
2.3 Describe one modification which occurs in transgenic fish. (10 marks)
2.4
2.4.1 Name four molecular analyzing methods of human diseases and state two advantages of molecular analysis. (20 marks)
2.4.2 Describe gene therapy. (10 marks)
2.4.3 Explain the two methods of gene therapy. (30 marks)
2.4.4 State four disadvantages of gene therapy. (10 marks)