



FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA
Department of Medical Laboratory Science
Year End Examination - Year 3

7th Batch – SEQ – Biotechnology (MLS 3104)

Date: 14th May 2018

Time: 10.30 a.m – 11.30 a.m.

Duration: 01 hour

Index Number:

Answer both questions

1.

36

1.1 Not all of the scientific community is supportive of genetically modified food. Golden rice was first published in the year 2000. However, it is currently not available for human consumption in most of the countries in the world. Describe the potential benefits and the potential risks of gene technology taking golden rice as an example. (50 marks)

1.2 Write short notes of the following

- a). Affinity purification of RNA (25 marks)
- b). Sperm mediated gene transfer (25 marks)

2.

Contamination of the cell culture is the most common problem encountered in cell culture laboratories.

2.1 State the main categories of cell culture contamination? List examples for each. (20 marks)

2.2 Explain how you would avoid above mentioned types of contamination in cell cultures. (50 marks)

2.3 Briefly describe how you would identify the source of contamination in cell cultures. (30 marks)

