

UNIVERSITY OF JAFFNA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION- SEPTEMBER 2018

MLSBM 3131 BIOTECHNOLOGY AND MOLECULAR BIOLOGY I

Date:19.09.2018

Time: 1 hour

Answer all four questions.

1. Describe the structural chromosomal abnormalities. (100 marks)
2. Diagrammatically explain the process of DNA replication. (100 marks)
3.
 - 3.1. Briefly describe how human insulin is produced from E.coli using recombinant DNA technology. (50 Marks)
 - 3.2. Briefly describe the steps in Polymerase Chain Reaction. (50 Marks)
4. Write short notes on
 - 4.1. Base excision DNA repair (30 marks)
 - 4.2. Nucleic acid probes (40 Marks)
 - 4.3. Mitochondrial Genome (30 Marks)