## UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES THIRD YEAR FIRST SEMESTER EXAMINATION- NOVEMBER 2014 MLSBM 3103 BIOTECHNOLOGY & MOLECULARBIOLOGY

Date: 17.11.2014 Time: 1 Hour

## AN

NSWER ALL FOUR QUESTIONS.		
1.		
	1.1 Define the term DNA fingerprinting	(10 Marks)
	1.2 Explain the steps involved in the procedure of DNA fingerprinting	(70 Marks)
	1.2 Give five applications of DNA fingerprinting	(20 Marks)
2.	Write notes on	
	2.1 Nucleic acid probes	(50 Marks)
	2.2 Karyotyping	(50 Marks)
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	3.1 Explain how human insulin is produced from bacteria <i>E. coli</i> using reco	ombinant
	DNA technology	(60 Marks)
	3.2 Write notes on translation	(40 Marks)
4.	Write short notes on	
	4.1 Frameshift mutation	(30 Marks)
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- "#"	4.2 Nonsense mutation	(30 Marks)