

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours Part-III Examination, 2021

MICROBIOLOGY

PAPER-IX

Full Marks: 80

ASSIGNMENT

The figures in the margin indicate full marks.

1.		Answer any <i>four</i> of the following:	$15 \times 4 = 60$
	(a)	Describe in detail nitrogen cycle and its microbiology with proper diagram.	15
	(b)	Describe the role of microbes in pesticides degradation.	15
	(c)	Give a detail account of construction and screening of cDNA libraries.	15
	(d)	Write short notes on: Biological Oxygen Demand, Trickling Filter and Eutrophication.	5×3 = 15
	(e)	Elaborate western blotting process and its limitations.	15
	(f)	Explain the properties of constructions of lambda vector.	15
2.		Answer any <i>two</i> of the following:	$10 \times 2 = 20$
	(a)	Give a detail account on bioplastics.	10
	(b)	Write short notes on:	$5 \times 2 = 10$
		(i) Mutualism (ii) Commensalism	
	(c)	Describe the process of DNA fingerprinting and its applications.	10

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