The Assam Royal Global University. Guwahati Royal School of Bioscience M.Sc. Biotechnology 1st Semester Semester End Examination, December 2018 Bioresource and Environmental Biotechnology BTC154D101

Time: 3 Hours

Maximum Marks: "10

Note: Attempt all questions as per instructions given.

The figures in the might-humal margin indicate marks

	Section - A	
Q.1.	Attempt all questions. (Maximum word limit 50)	7 W B
a.	What is Bioremediation?	
b.	Why are biomarkers used?	
C.	Name the type of industry responsible for water pollution? What are the role of forests?	
d.	Give two example of aerobic bacteria?	
e. f.	What are anaerobic microbes?	
g.	What type of organisms can be found in the rhizosphere?	
h.	What is municipal waste water?	
0.2	Section – B Define Phytoremediation? Mention the different types of phytoremediation?	14
Q.2.	OR	11
	What are the different factors which affect bioremediation? Write the advantag	es and
	disadvantages of bioremediation?	
Q.3.	What is biodegradation? How is biodegradation of hydrocarbons carried out?	7+7
2.5.	OR	
	Explain the aerobic and anaerobic process of digestion?	14,
Q.4.	What is waste water? How can we treat waste water using aerobic and anaerobi	c methods
		14
	OR	
	What are the molecular techniques in waste water treatment? Mention the limit	ations.
Q.5.	What are bioresources? Explain biotic and abiotic bioresources?	6+6
	OR	
	Mention the ecological significance of forest resources?	12