Reg. No



QP Code: RM21BTECH487

GIET UNIVERSITY, GUNUPUR - 765022

B. Tech (Sixth Semester Regular) Examinations, May – 2024 21BBTPE36001 - Environmental Biotechnology (Biotech)

Time: 3 hrs Maximum: 70 Marks

Ti	me: 3 hrs Ma	ıximum:	: 70 M	larks
(The figures in the right hand margin indicate marks) PART – A		2 x 5 = 10 Marks)		
Q.1.	Answer ALL questions		CO#	Blooms Level
a. :	Name two examples of biomarker.		CO1	K1
b.	Write the equation of Monod kinetics.		CO3	K2
c.	Write the two genetically engineered organisms.		CO2	K2
d.	Name two examples of biodegradable plastics.		CO4	K1
e.	Name two organic acids used in solvent extraction process.		CO4	K1
		(15 x 4 :	= 60 N	Marks)
Answer ALL questions		Marks	CO#	Blooms Level
2. a.	Describe the bioleaching of uranium from low grade ore.	7	CO1	K2
b.	Describe the methods of tertiary waste water treatment in domestic and industria waste water.	al 8	CO2	K2
	(OR)			
C.	What is Ozone layer depletion? Describe the mechanism behind the O ₃ laye depletion?	r 7	CO1	K1
d.	Write the applications include treatment of municipal and industrial waste water.	8	CO2	K2
3.a.	Write the advantages and disadvantages of biocatalyst.	7	CO3	K2
b.	What is Biogas technology? Write the process of Biogas production. (OR)	8	CO4	K2
c.	Define catalytic antibody? Write the structure and application of catalytic antibody	<i>7</i> . 7	CO3	K1
d.	What are the types of Bioplastics? What are the techniques involved in Bioplasti technology?	c 8	CO4	K2
4.a.	Write any two effects of air pollution.	8	CO1	K2
b.	Write the types of Biopesticides and Biofertilizers. (OR)	7	CO4	K2
0	• •	8	CO3	K1
c. d.	Describe the microbial treatment of oil pollution. What are oil spills? How the oil spills effect the marine life?	7	CO1	K2
5.a.	What is Biomining? Write the advantages and applications of Biomining.	8	CO4	K2
b.	Write the types of biomarkers based on their characteristic and application.	7	CO1	K2
0.	(OR)	,		
c.	Describe the steps involved in production of Bioethanol.	7	CO4	K2
d.	Define desulfurization of coal. How microbial desulfurization of coal typically works' End of Paper		CO4	K1
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