Q.P. Code :08139

[Marks:60]

		V/2
	Please check whether you have got the right question paper.	
	N.B: 1. All questions are compulsory.	767
	2. All questions carry equal marks.	3
	3. Draw neat, labelled diagrams wherever necessary.) J. J. J.
Q.1	Give an account of degradation and monitoring of pollutants from a biological origin. OR	^{رُک} 12
Q.1 a)	Explain modalities and local influences in Environmental biotechnology.	06
b)	Describe metabolic pathways in environmental biotechnology.	06
Q.2	Explain microbial growth kinetics in batch fermentation.	12
Q.2 a)		06
b)	Explain types and application of Fed- batch culture.	06
Q.3	Explain mechanism, principle and working of biosensors.	12
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Q.3 a)		06
b)	Explain land (site) Sampling, water sampling and air sampling methods used in Environmental monitoring.	06
Q.4	Explain the role of production of protoplasts, somaclonal variation and protoplast fusion in somatic cell	12
	genetics.	
Q.4 a)	Explain germplasm and biodiversity in transgenic animals.	06
b)	Enumerate various concerns regarding safety of transgenic crops.	06
Q.5	Write short notes on any three	12
	a) Biomass productivity in continuous culture.	
- 1	b) Importance of EIA.	
(E)	c) Haploid production.	
The state of the s	d) Proteomics in environmental monitoring.	
ST AZ K	e) Scope of environmental biotechnology.	
SOFT	(a) Bioindicators	
7 65 × Y7. ^	/ 20	

[Time: 2½ Hours]