Q. P. Code: 33978

## 2 1/2 Hours

æ	0	tal	M	ar	ks:	<b>75</b> 0

- 1. Attempt **all** questions.
- 2. All questions carry equal marks.
- 3. Draw **neat labeled diagrams** wherever necessary.
- 4. Use of log tables and non-programmable calculator is allowed.
- 5. For Q.2, Q.3 and Q.4 attempt A and B OR C and D.

Do as di	ected (Any fifteen)
What are	surfactants?
	or rubbish is the most visible form of pollution.
Give any	one example of particulate matter.
Soil sedin	ents refer to the deposition of trace elements or metals such as  ii) As iii) Cd iv) All of the above
Give full	orm of MPN.
Mist or li	uid particles are formed by condensation of vapour having a size of less than
mi	rons.
Give any	one minor source of stratospheric chlorine.
	is used as a substitute for Chlorofluorocarbons.
Define G	obal warming.
ODP star	ls for
Give any	one example of Greenhouse gas
Global te	nperatures expected to rise by the end of 21st century by °C.
Suggest a	y one control measure for Acid rain.
SRB stan	s for
What is I	oaugmentation?
Immobili 1) Alg	ation of cells can be carried out using  nate ii) Sucrose iii) Starch iv) None of the above
Mention	Ise of Thermal Enhancements.
Define Pl	ytostabilization.
Role of B	oscrubbers.
2,200	nvolves the injection of air into the saturated zone of a contaminated soil.

## Paper / Subject Code: 79004 / Environmental Biotechnology

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Q. 2 A	Give an account of types of air pollution.					
Q. 2 B	How can the assessment of water quality be carried out?	07				
	OR SECOND	3.3.3				
Q. 2 C	Discuss the various causes of water pollution?	08				
Q. 2 D	Elaborate the impact of solid waste on health.					
Q. 3 A	What is 'Greenhouse effect'? Describe factors responsible for Greenhouse effect.					
Q. 3 B	Explain the role of Chlorofluorocarbons in Ozone depletion.					
	OR	3				
Q. 3 C	Define Acid rain. Explain the formation of acid rain.	08				
Q. 3 D	Add a note on effects of UV-B light on health and environment.					
Q. 4 A	Define Bioremediation. Add a note on the process of hazardous site remediation.	08				
Q. 4 B	With respect to microorganisms, Explain: i) Designed organisms and consortia					
	ii) In-vivo and in-vitro Design strategies					
	OR OR					
Q. 4 C	Discuss In-situ physical treatment approach for monitoring efficacy of Bioremediation.	08				
Q. 4 D	Explain: Phytoremediation & Mycoremediation.	07				
Q. 5	Write Short notes on any three of the following	15				
a.	Causes of Soil erosion.					
b.	Control of Eutrophication.					
c.	Antarctic conditions.					
d.	Kyoto protocol.					
<b>e</b>	Degradation of pollutants by bacteria.					