

Instructions: All Questions carry equal marks

Attempt all Questions

Q I	Explain the use of environmental biotechnology to improve environment. Name five Environmental Buzzwords and explain them in detail along with an example.	14
OR		
Q I	A. Explain the concept of Genetic engineering in environmental management.	7
	B. Write a note on concept of environmental biotechnology along with its objectives.	7
OR		
Q II	Explain the concept of bio-absorption: factors affecting bio absorption and limitations of bio absorption.	14
OR		
Q II	A. Describe the technique of bioleaching in detail.	7
	B. Explain in-situ and ex-situ bioremediation.	7
OR		
Q III	Explain Aerobic vs. anaerobic degradation, testing of biodegradability and Bio-oxidation of phenolic compounds.	14
OR		
Q III	A. Enlist different kinds of pesticides and explain its merits and demerits.	7
	B. Write a note on different environmental clean-up technologies.	7
Q IV	What is remote sensing ?Enlist and explain applications of remote sensing.	14
OR		
Q IV	A. Describe the process of electromagnetic remote sensing and its key stages.	7
	B. Give a brief account on types of Satellites Used in Remote Sensing	7
Q V	Attempt any 7 out of 12 Short questions (two marks each)	14
1	Define: phytoremediation and Microbial Bioremediation.	2
2	State the full form of CDM and EMR.	2
3	Name microorganism involved in bioremediation.	2
4	Ramsar Convention took place in which year? State the country where it was organised.	2
5	What were the key features of Convention on Biological Diversity.	2
6	State the main objective of Kyoto Protocol.	2
7	Which convention aimed to ensure that international trade in wild animals and plants does not threaten their survival.	2
8	Define: adsorption with an example.	2
9	Explain the term: Genetic Engineering.	2
10	What is raster data in remote sensing ?	2
11	State the difference between reuse and recover.	2
12	What is GIS? State its use.	2