

M.Sc. Sem.-3 Examination

504

Env Science (Env Biotech & Remote Sensing)

Time : 2-30 Hours]

March-2025

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

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|-------|---|--------|
| Q I | Write a note on role of concept of Genetic engineering and concept of environmental biotechnology in environmental management. | 14 |
| OR | | |
| Q I | A. Enlist 5R's and explain its significance along with an example
B. Discuss on Public perception of biotechnology. | 7
7 |
| Q II | Explain the method of bioleaching along with its advantages and disadvantages. | 14 |
| OR | | |
| Q II | A. Describe the factors affecting bio absorption along with limitations.
B. State the uses of environmental nanotechnology. | 7
7 |
| Q III | Give an account on different types of pesticides along with its uses. State the advantages and disadvantages of using pesticides | 14 |
| OR | | |
| Q III | A. Explain in brief explain Biodegradation of specific hazardous wastes and hydrocarbons.
B. Describe all the environmental clean-up technologies. | 7
7 |
| Q IV | Explain the term: remote sensing. Name and explain various applications of remote sensing. | 14 |
| OR | | |
| Q IV | A. Elaborate on the process of electromagnetic remote sensing and its key stages.
B. Write a short note on types of Satellites Used in Remote Sensing. | 7
7 |
| Q V | Attempt any 7 out of 12 Short questions (two marks each) | 14 |
| 1 | What is bio-augmentation and bio-stimulation? | 2 |
| 2 | State two main types of bioremediation. | 2 |
| 3 | State the main objective of Kyoto Protocol. | 2 |
| 4 | Name the convention which aimed to ensure that international trade in wild animals and plants does not threaten their survival. | 2 |
| 5 | Define: adsorption with an example. | 2 |
| 6 | Explain the term: Genetic Engineering. | 2 |
| 7 | Why was Ramsar convention organised? | 2 |
| 8 | Define: Bioremediation and Mycoremediation. | 2 |
| 9 | What is the full form of CDM and EMR. | 2 |
| 10 | Which two microorganisms are involved in bioremediation? | 2 |
| 11 | Convention on Biological Diversity took place in which year?
State the country where it was organised. | 2 |
| 12 | State two uses of Geographic Information System. | 2 |