21BOT1C4L

M.Sc. I Semester Degree Examination, April/May - 2023
BOTANY
DSC 4 : Ecology and Ecoinformatics

Time : 3 Hours

Maximum Marks : 70

Note : *Answer **any five** of the following questions with Question **No.1 (Q1) Compulsory**, each question carries **equal** marks.*

1.	Discuss methods of measurement, global pattern of Primary production.	**14**
2.	Explain α, β and γ species diversity.	**14**
3.	Discuss in detail effect of SO_2, NO_2, O3, HF, Photochemical smog and particulates on plants.	**14**
4.	(a) Stratospheric ozone layer.	**4**
	(b) Effects of enhanced UV-B on plants, Human Health.	**5**
	(c) Drivers of Climate change.	**5**
5.	(a) What is remote sensing ? Explain types of remote sensing.	**8**
	(b) Vector Data Structure.	**6**
6.	Discuss Models and mechanisms of ecological succession with emphasis on changes in ecosystem properties during succession.	**14**
7.	(a) Concepts of community and continuum.	**4**
	(b) Thermal pollution and its effects on plant.	**5**
	(c) Concept of climax with suitable examples.	**5**
8.	(a) Climate change with respect to green house effects.	**5**
	(b) International efforts on climate change issues.	**5**
	(c) GIS data structures.	**4**

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