Enrollment No.

NAVRACHANA UNIVERSITY
a UGC recognized University

School: School of Science
Program/s: Division of Biomedical and Life Sciences
Year: 2nd **Semester:** 3rd
Examination: End Semester Examination
Examination year: December 2022

Course Code: LS255 **Course Name:** Ecological Restoration II
Date: 12/12/2022
Time: 11:30 am to 01:30 pm

Total Marks: 40
Total Pages: 02

Instructions:

- ➔ *Use of a calculator is ~~permitted~~/not permitted.*
- ➔ *Draw neat and labelled diagrams/charts wherever necessary.*

Q. No.	Details	Marks	COs*	BTL#
Q.1	**Answer the following objective type questions: (6 Marks)**			
1.	Conservation within the natural habitat is: • *In-situ* conservation • *In-vivo* conservation • *Ex-vivo* conservation • *Ex-situ* conservation	1	CO1	BT1
2.	After succession has begun, its vegetation itself cause its own replacement by new communities is called: • Autogenic succession • Allogenic succession • Autotrophic succession • Heterotrophic succession	1	CO2	BT3
3.	The species which are native to, and restricted to, a particular geographical region, are: • Endangered • Endemic • Indigenous • Invasive	1	CO3	BT2
4.	Recovery of the structure, function and processes of the original ecosystem is known as	1	CO4	BT3
5.	Why does after the nutrient enrichment from sewage contamination, a lake often becomes inhospitable to fishes?	2	CO4	BT3

Q.2 **Choose the answers which gives the correct combination:** **(4 Marks)** CO1, CO2, CO3, CO4 BT1, BT2, BT3

a.	Halosere	i.	Succession on a bare rock surface	2
b.	Lithosere	ii.	Succession initiating on sandy areas	
c.	Eosere	iii.	Succession starting in saline soil or wate	
d.	Psammosere	iv.	Development of vegetation in an era	

Q.3 **Answer *any five* of the following:** **(5 x 6 = 30 Marks)** CO1, CO2, CO3, CO4 BT1, BT2, BT3

1. Discuss the different theories proposed regarding the concept of climax. **6**
2. Comment upon the types of seres that you have studied. **6**
3. Explain in brief the process of Ecological Succession. **6**
4. Define the IUCN Red List categories. **6**
5. Discuss the major types of ecological succession. **6**
6. State some advantages of Phytoremediation. **6**

**********End of Question Paper**********