

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)**

**CLASS: MSc
BRANCH: ENVIRONMENTAL SCIENCE & MANAGEMENT**

**SEMESTER : III
SESSION : MO/2025**

SUBJECT: ES515 ECOSYSTEM HEALTH AND ECO RESTORATION

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
-

		CO	BL
Q.1(a)	Discuss and elaborate on the concept, focus area and application of landscape ecology.	[5] 1	2
Q.1(b)	Discuss the key aspects and factors that influence ecosystem resilience. Also discuss the importance, citing suitable examples.	[5] 1	3
Q.2(a)	Describe agronomic practices and discuss Core and Sustainable Agronomic Practices	[5] 2	3
Q.2(b)	Discuss water conservation and its importance. Also discuss the conservation processes at Home, in the Yard, larger-scale efforts, and community efforts.	[5] 2	3
Q.3(a)	Describe Strategies and their types used in ecosystem restoration for a degraded ecosystem.	[5] 3	2
Q.3(b)	Describe Ecosystem restoration techniques to repair degraded environments.	[5] 3	3
Q.4(a)	Describe forest degradation and its causes. Discuss restoration practices for managing forests.	[5] 4	3
Q.4(b)	Discuss Wetland degradation. Discuss restoration practices for Wetland degradation.	[5] 4	3
Q.5(a)	Describe the term "Restore, reclaim, reintroduce". The Challenge of Restoration in the Anthropocene and the Role of People in Restoration.	[5] 5	2
Q.5(b)	Describe Urban ecosystem restoration. Enlist the Key goals of urban ecosystem restoration and discuss the Common restoration activities.	[5] 5	3

:::20/11/2025:::E