

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

**CLASS: B. ARCH
BRANCH: ARCHITECTURE**

**SEMESTER : IV
SESSION : SP/2025**

SUBJECT: AR253 SITE PLANNING AND LANDSCAPE ARCHITECTURE

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. Diagrams, sketches, and illustrations are encouraged where applicable.
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Q.1(a)	Define and compare the roles of natural elements—landforms, water, and vegetation in shaping landscape character.	[5]	CO1	BL I
Q.1(b)	Illustrate with a neat diagram how plant types and climatic factors are used in creating sustainable landscape design.	[5]	CO2	III
Q.2(a)	List various manmade landscape elements and explain their functions in spatial organization of a designed landscape.	[5]	CO2	II
Q.2(b)	Explain the use of garden lighting, paving materials, and planters in outdoor design.	[5]	CO2	IV
Q.3(a)	Discuss the importance of visual analysis and climatic study during site analysis.	[5]	CO2	III
Q.3(b)	Suggest a site planning process for a public park in a residential area, considering both natural and manmade features	[5]	CO3	V
Q.4(a)	Classify and compare any two historical garden types and mention their distinct spatial and cultural features.	[5]	CO1	II
Q.4(b)	Critically evaluate the influence of English (British) and Mughal gardens on contemporary landscape practice in India.	[5]	CO3	V
Q.5(a)	Explain the key design considerations for passive and active recreation spaces in residential neighborhoods.	[5]	CO2	III
Q.5(b)	Discuss the safety and security measures to be integrated in public landscapes and how they contribute to urban livability.	[5]	CO3	IV

:::28/04/2025:::M