

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

CLASS: B.ARCH.  
BRANCH: ARCHITECTURE

SEMESTER : IV  
SESSION : SP/2023

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. Answers must be to-the-point and diagrams must be properly annotated.
  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.
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|        |  | CO    | BL  |
|--------|--|-------|-----|
| Q.1(a) | Draw the section of a gravity retaining wall with stone masonry. Add appropriate labels.   | [5] D | 1,2 |
| Q.1(b) | What is the advantage of using flexible unit pavers over rigid unit pavers in hardscape?   | [5] E | 3   |
| Q.2(a) | Explain the role of <i>scale</i> as a parameter of softscape design in the function of visual, physical, and aural screening. Draw suitable diagrams to illustrate your point. | [5] A | 3,4 |
| Q.2(b) | How did English Gardens fundamentally differ from French gardens?  | [5] C | 4   |
| Q.3(a) | Define the three elements of landscape structure - patch, corridor, and matrix with an example for each.   | [5] B | 1,2 |
| Q.3(b) | What is a bioswale and what is its use? Which landscape structure does it belong to?   | [5] E | 3   |
| Q.4(a) | What are the main elements of a Japanese Garden?   | [5] C | 1   |
| Q.4(b) | Explain the impact of the second wave of Chinese influence on the Japanese Gardens because of the Buddhist Zen philosophy.   | [5] C | 5   |
| Q.5(a) | How was water used as a dynamic material in the Mughal garden?   | [5] C | 4   |
| Q.5(b) | Shalimar Bagh in Kashmir was divided into different tiers or levels. What were the names of these levels and what was the basis of this division?                              | [5] A | 4   |

:::::26/04/2023 M:::::