

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

**CLASS: B.Arch.  
BRANCH: Architecture & Planning**

**SEMESTER: VII/ADD  
SESSION: MO/2025**

**SUBJECT: AR703 SUSTAINABLE CITY PLANNING**

**TIME: 02 Hours**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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|---|-----|----|----|
| Q.1(a) Explain the term sustainability and broad ways to achieve it in a city.  | [2] |    |    |
| Q.1(b) Describe the three aspects of sustainability and a few measures to be taken to help improve sustainability under the specific aspect.    | [3] |    |    |
| Q.2(a) What are the five R of sustainable waste management? List all of them in their correct order and describe the relevance of each of them. | [5] |    |    |
| Q.3(a) Highlight the significance of Vastu Shastra in the context of sustainable architecture.  | [2] |    |    |
| Q.3(b) Name the five elements of Vastu shastra and discuss their importance in city planning.   | [3] |    |    |
| Q.4(a) What are slums and its causes?   | [5] |    |    |
| Q.5(a) List and explain three strategies to increase community participation in city planning.  | [5] |    |    |

:::22/09/2025 :::M