

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID-SEMESTER EXAMINATION MO/2025)

CLASS: B.ARCH.  
BRANCH: ARCHITECTURE

SEMESTER : 9TH  
SESSION : MO/2025

SUBJECT: AR501 URBAN DESIGN

TIME: 02 Hours

FULL MARKS: 25

**INSTRUCTIONS:**

1. The question paper contains 5 questions, each of 5 marks and a total of 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
- 

- |        |  |     |                 |                                   |
|--------|--|-----|-----------------|-----------------------------------|
| Q.1(a) | Explain the following: Urban Morphology & Urban Texture.<br>Match the following:<br>i) Site Planning<br>ii) Serial Vision<br>iii) Letchworth & Welwyn<br>iv) A New Theory of Urban Design                            | [2] | CO<br>CO2       | BL<br>Understand<br>&<br>Remember |
|        | a) Gordon Cullen<br>b) Christopher Alexander<br>c) Kevin Lynch<br>d) Garden City   |     |                 |                                   |
|        | A) i-c, ii-a, iii-d, iv)-b<br>B) i)-b, ii)-c, iii)-a, iv)-d.<br>C) i-a, ii-d, iii)-c, iv)-b<br>D) i)-c, ii)-d, iii)-b, iv)-a   |     |                 |                                   |
| Q.1(b) | Explain the elements and principles of Urban Design with an example.   | [3] | CO1<br>&<br>CO2 | Understand<br>&<br>Remember       |
| Q.2(a) | Name two early civilizations where cities developed and highlight one characteristic of their urban form. Support your answer with sketches.   | [2] | CO2             | Remember                          |
| Q.2(b) | Kevin Lynch, in his book "Image of the City", has highlighted the elements that create a mental image of the city/urban area. What are those elements? Explain them with an example and a sketch.                    | [3] | CO1<br>&<br>CO2 | Understand<br>&<br>Remember       |
| Q.3(a) | Discuss the theory of "Urban Design" as proposed by Christopher Alexander.   | [2] | CO2             | Understand                        |
| Q.3(b) | Eyes on the Streets and Mixed-Use in Urban Areas are essential for healthy urban spaces. Who has given this theory, and what are the important conclusions drawn from the theory? Explain your answer with sketches. | [3] | CO2             | Understand<br>and Analyze         |
| Q.4(a) | Why are public spaces often referred to as the "living room of the city"? Explain placemaking with an example.   | [2] | CO2<br>&<br>CO3 | Understand<br>and Analyze         |
| Q.4(b) | What are the main ideas behind Ebenezer Howard's Garden City Movement? What is meant by "Serial Vision" in urban design theory?  | [3] | CO2             | Understand                        |
| Q.5(a) | Differentiate between Visual Survey & Physical Survey.<br>Match the following:<br>i) Primary Mixed Uses<br>ii) Fine Urban texture<br>iii) Wholeness<br>iv) Multiple Nuclei Theory                                    | [2] | CO2             | Understand<br>&<br>Remember       |
|        | a) Shahjahanabad<br>b) Christopher Alexander<br>c) Harris & Ullmann<br>d) Jane Jacobs  |     |                 |                                   |
|        | A) i-c, ii-a, iii)-d, iv)-b<br>B) i)-a, ii)-c, iii)-b, iv)-d.<br>C) i-d, ii-a, iii)-b, iv)-c<br>D) i)-c, ii)-d, iii)-b, iv)-a  |     |                 |                                   |
| Q.5(b) | Explain how Urban design can contribute to sustainability. Discuss the 7Cs of Urban Design (Explain with examples).  | [3] | CO2<br>&<br>CO3 | Understand,<br>&<br>Analyze       |