

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

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

**SEMESTER : 9TH
SESSION : MO/2025**

SUBJECT: AR501 URBAN DESIGN

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.
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Q.1(a)	Define Urban Design. Briefly discuss the principles and elements of Urban Design with an example.	[5]	CO CO1	BL Understanding
Q.1(b)	Explain the following with sketches: i) Urban Morphology, ii) Urban Texture, iii) Image of the City as per Kevin Lynch.	[5]	CO1	Understanding & Analysis
Q.2(a)	Briefly discuss the following concepts: i) Urban Landscape & its key components, ii) Streetscape, & iii) Function of Open Spaces.	[5]	CO1&CO2	Understanding & Analysis
Q.2(b)	Which United Nations Sustainable Development Goals (SDGs) are most closely associated with promoting sustainable urban design, and how do Nature-Based Solutions (NBS) contribute to sustainable urban planning and regeneration? Discuss their significance and potential benefits.	[5]	CO2	Understanding & Analysis
Q.3(a)	Explain the significance of riverfront development. Discuss its advantages and different types, and illustrate your answer with an example of a riverfront development project.	[5]	CO2&CO3	Understanding & Analysis
Q.3(b)	Define the Central Business District (CBD). Explain its key characteristics and discuss any five major elements that typically constitute a CBD.	[5]	CO1	Understanding
Q.4	Explain the significance of urban renewal. Choose a specific Indian case study and discuss, in detail, the urban renewal initiatives undertaken, the implementation process, and the changes observed – social, economic, environmental, and spatial. Conclude with the key challenges faced and lessons learned.	[10]	CO2&CO3	Understanding & Analysis
Q.5(a)	Define an Inclusive City and state its main objectives. Discuss the guiding principles that shape inclusive urban development in India.	[5]	CO1&CO3	Understanding
Q.5(b)	Discuss the key initiatives and objectives of the following urban development programs in India: i) Atal Mission for Rejuvenation and Urban Transformation (AMRUT), ii) Smart Cities Mission, iii) Heritage City Development and Augmentation Yojana (HRIDAY), iv) Pradhan Mantri Awas Yojana (PMAY)	[5]	CO1	Remember

:::19/11/2025:::M