

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

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

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

SUBJECT: AR703 SUSTAINABLE CITY PLANNING

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)	Briefly explain the principles of sustainability.	[5] 2	1
Q.1(b)	Highlight the role of green infrastructure in sustainable urbanization and list a few examples of green infrastructure.	[5] 2	2
Q.2(a)	Highlight the key principles of Vastu-Shastra that are relevant in present day sustainable city planning.	[5] 2	2
Q.2(b)	Point out the differences between Garden city and Neighborhood city concept?	[5] 2	3
Q.3(a)	Explain four major causes behind the formation of slums. Also discuss how slums negatively impact the sustainability of a city.	[5] 2	4
Q.3(b)	Explain FAR and its relevance in the city planning.	[5] 2	2
Q.4	Briefly describe five strategies for achieving sustainable water management in a city.	[10] 1	4,6
Q.5	Identify five urban planning policy interventions from any Indian city of your choice, and briefly explain how each contributes to sustainable city planning.	[10] 1	5,6

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