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

CLASS: B.ARCH
BRANCH: ARCHITECTURE

SUBJECT: AR703 SUSTAINABLE CITY PLANNING

TIME: 3:00 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.

Q.1(a) Q.1(b) Q.1(c)	What are the basic features of a sustainable city? Does green building more expensive than traditional building? Why? Justify, giving one reason why sustainability is an essential component of any developmental programs and projects.	[2] [3] [5]
Q.2(a) Q.2(b)	What is the meaning of carrying capacity? Write your opinions and thoughts on Urban Sprawl versus Compact City concerning sustainability in planning briefly.	[2] [3]
Q.2(c)	Write in detail regarding the Three Magnet Theory of Ebenezer Howard. Illustrate with sketches and write your opinion on how this theory is evident in Indian cities and towns.	[5]
Q.3(a) Q.3(b)	What is the meaning of sustainability in transportation? Write a short note on how appropriate material selection can contribute to sustainability in building construction.	[2] [3]
Q.3(c)	What are the causes of rural-urban migration? How will it affect the urban area?	[5]
Q.4(a) Q.4(b) Q.4(c)	What is a built environment? Write a short note on any local environmental issue (can be based on your study). How a green building differs from a conventional building? Compare any five aspects.	[2] [3] [5]
Q.5(a) Q.5(b) Q.5(c)	Slum dwellers strive hard for self-sustenance. How? Enumerate the characteristics of the slum. Write a detailed note on the garden city concept by Ebenezer Howard. Explain the same with examples.	[2] [3] [5]

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