

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

CLASS: MUP & Pre-Phd
BRANCH: ARCHITECTURE

SEMESTER : I
SESSION : MO/2022

SUBJECT: AR607 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.
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- Q.1(a) What are the main characteristics of Sustainable cities? [2]
Q.1(b) Explain the three-pillar model of sustainability. [3]
Q.1(c) Write short notes: [5]
1) Set back
2) Distribution of Land uses.
- Q.2(a) What is the meaning of a built environment? [2]
Q.2(b) Give suggestions to reduce the power consumption at the place where you are studying, enumerating the unwanted wastage of power. [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) List and explain any three local and regional environmental issues. [2]
Q.3(b) What are your proposals for a sustainable transport system that integrates road and water transport? [3]
Q.3(c) 'People move to cities to get better quality of life; Is this correct? Substantiate your answer with a minimum of 5 reasons. [5]
- Q.4(a) Mention the types of sustainability indicators. [2]
Q.4(b) Explain the concept of a smart city with an example. [3]
Q.4(c) What is slum clearance? Describe two methods of slum clearance. [5]
- Q.5(a) Write a note on swatch Bharat Mission. [2]
Q.5(b) Do you prefer an urban area living? Substantiate your answer. [3]
Q.5(c) What is the necessity of a Development Plan? Elaborate on the method of execution of Development Plan. [5]

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