

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

**CLASS: BARCH  
BRANCH: ARCHITECTURE**

**SEMESTER: VII  
SESSION : MO/2019**

**SUBJECT : MUP2101 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING**

**TIME: 1.5 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The total marks of the questions are 30.
2. Candidates may attempt for all 30 marks.
3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. The missing data, if any, may be assumed suitably.

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- Q1 (a) Discuss the significance of the course ‘Urban Ecology and Environmental Planning’ in the architectural curriculum. [2]  
(b) Elaborate the terms ‘Ecology’ and “Urban Ecosystem”. [3]
- Q2 (a) Explain, “Urban ecosystem is unique due to human dominance”. [2]  
(b) With suitable examples discuss the impact of transportation development on the urban environment. [3]
- Q3 (a) Enumerate the effects of industrialisation on the urban ecology and environment. [2]  
(b) What do you understand by the terms - ‘Carrying Capacity” and Ecological Footprint” and what is the relation between them? [3]
- Q4 (a) Elaborate the statement- “Cities as Sustainable Ecosystems”. [2]  
(b) Itemize the features of a sustainable city in the context of environment? [3]
- Q5 (a) Enumerate the differences between Renewable and Non-renewable Resources? [2]  
(b) Why water is a unique resource? Suggest specific solutions for acute water crisis in a city. [3]
- Q6 (a) Justify the importance of Land as an important natural resource. [2]  
(b) Analyse the value of Biodiversity and Ecosystem with an appropriate example. [3]

:::: 24/09/2019M ::::