

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

**CLASS: BARCH
BRANCH: ARCHITECTURE**

**SEMESTER : VII
SESSION : MO/18**

SUBJECT: MUP2101 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING
TIME: 3 HRS.

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 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 Ecology. Explain, "Urban ecosystem is unique due to human dominance". | [2] |
| Q.1(b) What is 'urban' and what's natural within urban? | [4] |
| Q.1(c) What are the external natural forces influence urban ecology and environment? | [6] |
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| Q.2(a) What are other multiple disciplines which effect urban environment? | [2] |
| Q.2(b) Analyse how air resource get affected by human population growth. | [4] |
| Q.2(c) Enumerate the positive and negative effects of industrialisation on the urban ecology and environment. | [6] |
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| Q.3(a) Evaluate briefly the features, uses and applications of Environmental Resource Inventory. | [6] |
| Q.3(b) Describe the contrast between the population - resource relationship. Should all resources be managed? | [6] |
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| Q.4(a) Define in brief Ecological Sustainable Development. | [2] |
| Q.4(b) Elaborate the statement- "Cities as Sustainable Ecosystems". | [4] |
| Q.4(c) Itemize the features of a sustainable city in the context of environment. | [6] |
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| Q.5(a) Elaborate the different types of energy uses in the different sectors. | [6] |
| Q.5(b) Analyse the effects of energy consumption in the building sector. | [6] |
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| Q.6(a) What are the aspects for Environmental Management Strategies? | [2] |
| Q.6(b) Specify the Indicators to assess the Environmental Quality. | [4] |
| Q.6(c) Analyse the need for Environmental Impact Assessment with an appropriate example. | [6] |
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| Q.7(a) Enumerate the framework of Environmental Planning. | [2] |
| Q.7(b) Enlist the features of the National Water Policy. | [4] |
| Q.7(c) Explain the Sustainable development Programmes and Policies. | [6] |

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