

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

**CLASS: BARCH
BRANCH: ARCHITECTURE**

**SEMESTER : VII
SESSION : MO/19**

SUBJECT: MUP2101 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING
TIME:3:00 HOURS

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) Enlist the multiple subjects which affect urban environment? [2]
Q.1(b) What are the components of natural environment and built environment? [4]
Q.1(c) What are the external natural forces influence urban ecology and environment? [6]
- Q.2(a) Explain the impact of Humans on urban ecology. [6]
Q.2(b) How excessive pressure of urbanisation brings about changes in Urban Climate. Ecology, Hydrology, Drainage System, natural resources, Human Settlements? [6]
- Q.3(a) Define the term Urban ecosystem. [2]
Q.3(b) Specify the aspects of Air as a natural resource. [4]
Q.3(c) Considering an example of an urban system, discuss the need and significance for considering the term in the current scenario of environmental degradation and hazards. [6]
- Q.4(a) Define in brief Ecological Sustainable Development. [2]
Q.4(b) Enumerate the indicators of Economic Sustainability. [4]
Q.4(c) Explain in brief the urban issues related to Environmental Sustainability. [6]
- Q.5(a) What are the aspects for Environmental Management Strategies? [2]
Q.5(b) Specify the Indicators to assess the Environmental Quality. [4]
Q.5(c) Analyse the need for Environmental Impact Assessment with an appropriate example. [6]
- Q.6(a) Outline the features of the objectives of the National Forest Policy in India. [2]
Q.6(b) Highlight upon the provisions of the Air (Prevention and Control of Pollution) Act, of 1981 and discuss its significance. [4]
Q.6(c) Explain in brief The National Water Policy of 1987. [6]
- Q.7(a) Enlist the areas discussed in UNCED. [6]
Q.7(b) Write a brief note on the significance and intentions of 'Local Agenda 21'. [6]

:02/12/2019:E