

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

CLASS: MUP/MSC/MTECH
BRANCH: ARCHITECTURE/MGI/CEE/RS

SEMESTER : I
SESSION : MO/19

SUBJECT: AR605 URBAN ECOLOGY & ENVIRONMENTAL 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) Differentiate between Ecology and Urban Ecology. Explain "Ecosystem" with an example. [5]
Q.1(b) Define Environment. What are the "Environmental Zones" in India? Discuss any one in detail. [5]
- Q.2(a) What do you mean by "Environmental Planning"? What are its elements and why it is required? [5]
Q.2(b) What are the issues of an Urban Environment? Discuss with an example. [5]
- Q.3(a) Explain "Integrated Resource Planning". What aspects are required in making "Natural Resource Inventory"? [5]
Q.3(b) Explain the concept of "Carrying capacity of an urban area". What are its different levels? Explain any one model for carrying capacity calculation. [5]
- Q.4(a) What are Criteria Pollutants and what are their sources? What measures is required to be taken to mitigate air pollution in cities? [5]
Q.4(b) What is EIA and what purposes it serves? List down the steps in an EIA process. [5]
- Q.5(a) Explain "Environmental Management (EM)". Explain any one EM tool other than Environmental Assessment. [5]
Q.5(b) Explain three Environmental policies, programs and legislations at international level. [5]

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