

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

**CLASS: MTECH/MSC/MUP
BRANCH: CIVIL/ENV/RS/MGI/MUP**

**SEMESTER : I
SESSION : MO/18**

**SUBJECT: AR605 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING
TIME: 3.00 HRS**

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) Highlighting the various dimensions of urbanization and industrialization, discuss its impact on the natural environment. [5]
- Q.1(b) Define the term Urban ecosystem. Considering an example discuss the need and significance for considering the term in the current scenario of environmental degradation and hazards. [5]
- Q.2(a) Elaborating on the characteristics of Integrated Resource Management approaches discuss how to differentiate it from other management approaches? [5]
- Q.2(b) Explain briefly all the ecological determinants which form the basis of land use planning. Consider a suitable example for explaining the same. [5]
- Q.3(a) Differentiate between the following: [5]
i) Point and Non-point Source of Pollution ii) London Smog and Los Angeles Smog
- Q.3(b) Discuss the significance of Environmental Impact Assessment (EIA) as a decision making tool in environmental management and planning? Considering an example discuss the steps of EIA. [5]
- Q.4(a) Evaluate the nature of the solid waste generated within Birla Institute of Technology Mesra, Ranchi campus and suggest some appropriate solid waste management strategies for the same. [5]
- Q.4(b) Discuss the purpose of Rain Water Harvesting systems. Considering a suitable case elaborate on the components of Rain water harvesting system. [5]
- Q.5(a) Write a brief note on the significance and intentions of 'Local Agenda 21'. [5]
- Q.5(b) Highlight upon the provisions of the Air (Prevention and Control of Pollution) Act, of 1981 and discuss its significance. [5]

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