

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

**CLASS: MTECH/MSC  
BRANCH: CIVIL/MGI**

**SEMESTER : I  
SESSION : MO/2023**

**SUBJECT: AR605 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING**

**TIME: 3 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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		CO	BL
1. a)	Discuss the significance of the course 'Urban Ecology and Environmental Planning' in the curriculum.	[5] CO1	Understand
b)	Describe the terms 'Ecology' and "Urban Ecosystem". How does the external natural forces influence urban ecology and environment?	[5] CO1	Understand
2. a)	Discuss how water resources get affected by human population growth.	[5] CO2	Analyse
b)	Enumerate the components of natural environment and built environment?	[5] CO2	Remember
3. a)	Synthesize the major categories of division of Water pollutants. Elaborate the effects of Soil pollution.	[5] CO3	Create
b)	Enumerate the approaches in transport and urban planning to reduce air pollution?	[5] CO2	Understand
4. a)	Justify - 'Integrated environmental management framework is both a theoretical and practical approach to meet the right balance between development and the environment in a sustainable manner'.	[5] CO1	Evaluate
b)	Outline the principles of Integrated Environmental Management.	[5] CO1	Compare
5. a)	Evaluate the major objectives and functions of the United Nations Environment Programme (UNEP).	[5] CO3	Evaluate
b)	Summarize the outcomes of the Rio Summit 1992, which is also called the Earth Summit.	[5] CO3	Interpret

**:::::22/11/2023 E:::::**