

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2024)

CLASS: B. Arch
BRANCH: ARCHITECTURE

SEMESTER: IX/ADD
SESSION : MO/2024

SUBJECT: AR605 URBAN ECOLOGY AND ENVIRONMENTAL PLANNING
TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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Q.1(a)	Discuss the relevance and significance of the course 'Urban Ecology and Environmental Planning' in the architectural curriculum.	[2]	1	Understand, Analyse
Q.1(b)	Which according to you is the biggest environmental crisis that humankind is currently experiencing. Discuss why do you think it is so.	[3]	1,2	Understand, Analyse
Q.2(a)	List the components of the built environment. Graphically show the input and output relation that exists in any urban system and briefly discuss it.	[2]	1	Understand, Analyse
Q.2(b)	Referring to any one of the bio-geochemical cycles discuss how it may have been impacted by urbanization.	[3]	1,2,3	Understand, Evaluate, Analyse
Q.3(a)	Discuss why there is a significant need to associate the term ecology to urban built systems.	[2]	1,2	Understand, Analyse
Q.3(b)	Discuss the challenges of applying the ecosystem approach to cities.	[3]	1,2	Understand, Analyse
Q.4(a)	What do you understand by the term 'Urban Metabolism'? Discuss the relevance of the term.	[2]	1,2	Understand, Analyse
Q.4(b)	List at least three different methods of assessing 'Urban Metabolism' and discuss any one briefly.	[3]	1,2	Understand, Analyse
Q.5(a)	Briefly discuss what do you understand by the term 'Sustainable Development.'	[2]	1	Understand, Analyse
Q.5(b)	Citing examples, discuss any two sustainable development principles that can be adopted by cities.	[3]	1,2,3	Understand, Analyse

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