8. Discuss how ecological thinking can be used in the organization and planning of green spaces that can contribute to the environmental health of a city.

(15)

[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 4681   **E**

Unique Paper Code   : 32181402

Name of the Paper   : Urban Ecosystems

Name of the Course   : **B.Sc. (H) Environmental Science – Core**

Semester   : II

Duration : 3 Hours   Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. Attempt any **five** questions.

3. **All** questions carry equal marks.

1. Explain the potential ways that urbanization can help in solving current environmental issues rather than being a cause of it.   (15)

P.T.O.

2. Write explanatory notes on the following **(any three)** : (5×3=15)

   (i) Urban transformation and environment

   (ii) Poverty and slums in urban ecosystems

   (iii) Sustainability in urban environment

   (iv) Urban planning

3. Write down the difference between the following **(any three)** : (5×3=15)

   (i) Urbanization and Urban sprawl

   (ii) Traditional resources and Alternative resources in urban environments

   (iii) Green belts and Urban gardens

   (iv) Green buildings and Conventional buildings

4. Explain the potential ways that can help minimize environmental challenges associated with urbanization, and it can further contribute to the solution of environmental issues rather than being a cause.

(15)

5. What strategies should one follow while transforming a traditional city into a smart city? Explain the challenges associated with such efforts. How can these challenges be addressed from an environmental perspective? (15)

6. How can we design a sustainable city that maintains the balance between nature and urban development and serves as resource sinks without depleting their surrounding environments? (15)

7. How can sustainable waste disposal, management, and energy consumption be implemented in urban dwellings without compromising the quality of life? (15)