

U.G. 6th Semester Examination-2022

ENVIRONMENTAL SCIENCE

[HONOURS]

Course Code : ENVS-H-CC-L-14

(Urban Ecosystems)

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** of the following: 2×5=10
 - a) What do you mean by urban governance?
 - b) What are the causes of urbanization?
 - c) What are the four pillars of a smart city?
 - d) What are the components of urban infrastructure?
 - e) What are the objectives of National Urban Policy Framework?
 - f) How urban sprawl affects wildlife?
 - g) Why is green space important for sustainable urban living?
 - h) What is meant by urban environmental quality?
2. Write short notes on any **two** of the following: 5×2=10
 - a) Environmental costs of urban infrastructure

- b) Urban natural forest ecosystem as green lungs
 - c) Resource consumption and its ecological perspectives
 - d) Man as the driver of urban ecosystem
3. Answer any **two** of the following: 10×2=20
 - a) What are the main causes of urban pollution? Give a brief account on global urban air pollution trends. Discuss the vehicular emission scenario in Kolkata city. 4+3+3=10
 - b) What is urban sustainability? What are the challenges in assessing urban sustainability? Give an account on environment friendly policies necessary to promote urban sustainability. 2+4+4=10
 - c) What are the issues related to urban housing in India? Discuss the success and / or failures of past and current urban housing schemes in India. How can we meet the housing challenges in urban areas? 3+4+3=10
 - d) What do you mean by urban regeneration? What are the key elements of urban regeneration? Mention different types of urban regeneration with examples. 3+4+3=10

[Turn over]