

U.G. 4th Semester Examination - 2024**ENVIRONMENTAL SCIENCE****[HONOURS]****Generic Elective Course (GE)****Course Code : ENVS-H-GE-L-04****(Green Chemistry, Green Technology and
Environmental Applications)****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 is meant by green infrastructure?
 - b) State the significance of sustainable consumption of resources.
 - c) Define the term 'composting'.
 - d) What are the basic criteria for eco-mark?
 - e) What are the advantages of LEED certified building?
 - f) Define heavy metals with an example.
 - g) What is meant by zero waste technology?
 - h) Define green chemistry.

[Turn Over]

2. Write short notes on any **two** of the following:

$5 \times 2 = 10$

- a) Role of governmental bodies for green planning
- b) Fluidized Bed Combustion
- c) Agroforestry—a land management approach
- d) Role of green technologies towards a sustainable future.

3. Answer any **two** of the following :

$10 \times 2 = 20$

- a) What is solar panel? How does a solar panel work? What are the advantages of solar panel?

$2 + 5 + 3 = 10$

- b) What is meant by green economy? What are the four pillars of green economy? How does a green economy protect and preserve biodiversity?

$2 + 3 + 5 = 10$

- c) What is Combined Heat and Power technology? Write down the working principle and benefits for its uses.

$2 + 5 + 3 = 10$

- d) What is meant by green building? What are the features of green building? What are the benefits of a green building?

$2 + 4 + 4 = 10$