

**2022/TDC (CBCS)/EVEN/SEM/
EESDSC/GEC-401T/103**

TDC (CBCS) Even Semester Exam., 2022

ECOLOGY AND ENVIRONMENTAL SCIENCE

(4th Semester)

Course No. : EESDSC/GEC-401T

(Green Technology)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Fill in the blanks any fifteen of the following :
1×15=15

- 1. Wind turbine converts the wind's kinetic energy into _____ energy.**
- 2. _____ is the country, which is the largest producer of solar panels.**
- 3. Green technology includes conversion of renewable resources to _____.**

(2)

4. Recycling helps to protect the _____.
5. The acronym 'LEED' stands for _____.
6. One of the objectives of green belt is to improve _____ in urban areas.
7. The acronym 'REDD' stands for _____.
8. In India, the ecolabelling scheme, 'Ecomark' was launched in the year _____.
9. The largest reservoir of methane is under the _____.
10. The two most important carbon sinks are vegetation and _____.
11. The aim of CCS technologies is to prevent the release of large quantities of _____ into the atmosphere from heavy industry.
12. Flue gas usually consists of mostly _____.
13. Photodegradable plastic is usually made up of _____ based polymers.
14. DDT is an example of _____ products in the environment.

(3)

15. Remains from the death of living creatures belong to _____ wastes.
16. Green nanotechnology is the use of nanotechnology to improve the _____ sustainability.
17. Ecological footprint measures human demand on _____.
18. The technology that has no adverse effect on the environment is known as _____ technology.
19. Green practices conserve _____.
20. Organic agriculture conserves _____ resources.

SECTION—B

Answer any *five* of the following questions : 2×5=10

21. What do you mean by 'green technology'?
22. Give two examples of successful green technologies.
23. What do you mean by land use planning?
24. Define green banking.

(4)

25. Mention the names of two types of technologies related to carbon capture and storage.
26. What do you mean by fuel efficient vehicles?
27. Define biodegradable product with one example.
28. What is green nanotechnology?
29. What is organic agriculture?
30. Define agroforestry.

SECTION—C

Answer any *five* of the following questions : 5×5=25

31. Describe briefly the concept of cradle to grave approach of waste management.
32. Describe briefly the 3R's of green technology.
33. Describe briefly the concept of green building and its relevance in the context of present environmental condition.
34. Describe briefly UNEP's green economy initiative.

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(Continued)

(5)

35. Describe briefly the carbon capture and storage technologies.
36. Describe briefly the methods related to pollution reduction and its removal.
37. Describe briefly the bioaccumulative products in environments and its possible harmful effects.
38. Describe briefly the concept of green nanotechnology and its application in environmental management.
39. Describe briefly the various ways of reducing ecological footprint.
40. Organic agriculture is a sustainable form of agriculture. Discuss.

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