



**2023/TDC(CBCS)/EVEN/SEM/
EESDSC/GE-401T/202**

TDC (CBCS) Even Semester Exam., 2023

ECOLOGY AND ENVIRONMENTAL SCIENCE

(4th Semester)

Course No. : EESDSC/GE-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 blanks any *fifteen* of the following :

1×15=15

1. Vibration from wind turbines causes _____ pollution.
2. Solar panels convert sun's energy into _____.
3. _____ bags, containers and kitchenwares can contribute enormously to environment conservation.



(2)

4. Design and production of systems and products that initiate nature's process is called ____ approach.
5. Eco-mark is issued by ____ for products as a ecologically safe certification mark.
6. An open land area near a city where construction of building is restricted is called ____.
7. Largest reservoir of earth's carbon is located in ____.
8. FGD technology is used to remove ____ gas from fossil fuel power plants.
9. ____ is considered as a green solvent for bleaching clothes.
10. In green nanotechnology approach, metallic nanoparticles are synthesized using ____ extracts.
11. Biodegradation caused by microorganism occurs under ____ condition.
12. Reducing our dependence on ____ is one of the primary way to address the problem of deforestation.

J23/618

(Continued)

(3)

13. Organic agriculture sustains ____ health.
14. Green building reduces building's impact on individual health and ____.
15. ____ technologies use waste materials to make new products contributing to environmental sustainability.
16. ____ planning manages, protects and prevents degradation of soil and water resources.
17. Using public transports and car-pool can greatly reduce ____ emission.
18. Net accumulation of contaminants in an organism from all sources is called ____.
19. Besides government agencies, ____ sector also contribute significantly in waste recycling.
20. Recycled toilet tissue is an example of ____ product.

SECTION—B

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

21. Mention two limitations of wind turbines.

J23/618

(Turn Over)



(4)

22. What is meant by IOT based waste management?
23. Give an example of 'window system' which is green building compliant.
24. Define carbon footprint.
25. Mention four positive impacts of 'green city' implementation.
26. Explain the advantage of 'pool car' concept.
27. What is photodegradable plastic bag?
28. What is meant by green solvents?
29. Write briefly about organic tea.
30. State how NO_x pollutants can be reduced.

SECTION—C

Answer any *five* of the following questions :

5×5=25

31. Briefly discuss the action of a solar panel.
32. Briefly state five key principles of green building.

J23/618

(Continued)

(5)

33. Write a short note on eco-mark in India.
34. Discuss the salient features of fuel-efficient vehicles.
35. Briefly discuss about 'green reagents' in chemical transformation.
36. Explain why it is more important to reduce waste than to recycle it.
37. Discuss two major challenges for implementing green technologies.
38. Write a note on 'agro-forestry'.
39. Outline the concept of biodegradation.
40. Write a note on 'ecological footprint'.

J23--190/618

2023/TDC(CBCS)/EVEN/SEM/
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