

Ajay Kumar Garg Engineering College, Ghaziabad
Department of Applied Sciences and Humanities
Pre-University Test

Course: B.Tech
 Session: 2024-25
 Subject: Environment and Ecology
 Max Marks: 70

Semester: II
 Section: S11-S20
 Sub. Code: BAS 204
 Time: 3Hrs.

OBE Remarks:

Q.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CO No.	1	2	2	3	3	4	5	1	2	3	3	3	4	4	5	5	3
Bloom's Level	L1	L2	L5	L2	L1	L1	L4	L3	L2	L2	L4	L3	L4	L5	L2	L1	L2
Weightage CO4: 16									Weightage CO5: 16								

Note : Answer **all** the sections.

Section-A

A. Attempt **all** the parts.

(7x2 = 14)

1. Define ecosystem. Who has given the term ecosystem?
2. What are 4'R' rules and its significance?
3. What is inversion condition of troposphere?
4. Name the causing agent of cholera and botulism.
5. What is activated sludge.
6. Write a note on Parali burning.
7. What is Lag phase of population curve?

Section-B

B. Attempt **Any three**.

(3x7 = 21)

8. Name the main components of atmosphere. Classify the atmospheric segments on the basis of temperature and other parameters.
9. Classify the forest on the basis of altitude. What are the major causes and consequences of deforestation?
10. Elaborate various steps of waste-water treatment and draw a layout of the treatment plant. Discuss the biological treatment of waste water.
11. Differentiate between point, line and area sources of air pollution. Write adverse effects of SOX and COX on plant and human.
12. Classify the waste. Discuss in detail solid waste disposal practices.

Section-C

C. Attempt **all** the parts.

(5x7 = 35)

13. Attempt any one.

- a) Write the ozone depletion reactions. Discuss the effects of ozone depletion. ✓
- b) What are greenhouse gases? Discuss how Enhanced greenhouse effect influence the climate change.

14. Attempt any one.

- a) What are acid rains? Discuss their causes, consequences and control measures. ✓
- b) What are the main causes of automobile pollution? Suggest some methods to reduce automobile pollution.

15. Attempt any one.

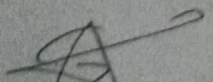
- a) Define Urban Sprawling. State its positive and negative impacts on environment.
- b) What are the initiatives of Non-Governmental organization (NGO) in environment protection? ✓

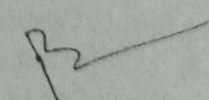
16. Attempt any one.

- a) Write about the urn, bell and pyramid shape of population pyramid.
- b) Discuss in detail Environmental (Protection) Act, 1986. What are the issues involved in different pollution related acts. ✓

17. Attempt any one.

- a) What is the phenomenon of soil erosion? Discuss the effects and control of soil erosion.
- b) Differentiate between sound and noise. What are various adverse effects of noise pollution? Suggest preventive methods of noise pollution.


Faculty Sign


HoD Sign