

## Paper 1 : Fundamentals of Environmental Science

- **1 Mark Questions :**

1. Give definition of Biogeochemical cycles.
2. Write phases of Biogeochemical cycle.
3. Write types of Biogeochemical cycle.
4. What is mean by Gaseous cycle?
5. What is Sedimentary cycle ?
6. Write name of important biogeochemical cycles.
7. Define Carbon cycle.
8. What is mean by biotic phase.
9. Write definition of abiotic phase.
10. What is mean by phosphorus cycle.
11. Define Sulphur cycle.
12. Definition of heat transfer process.
13. Write definition of meteorology.
14. Write definition of precipitation.
15. Write definition of mixing ratio.
16. Write definition of lapse rate.
17. What is mean by environmental lapse rate.
18. Write definition of wind velocity.
19. What is mean by wind roses.
20. What is mean by GIS.
21. What is mean by remote sensing.
22. What is mean by urban sprawling.
23. Write a meaning of ground truthing.
24. Write a meaning of digital image processing.
25. Write name of meteorological parameters.
26. What is mean by land use planning.
27. Write the abiotic components.
28. Write definition of biotic components.

- **2 Marks Questions :**

1. Define gaseous cycle and write its example.
2. Define sedimentary cycle and write its example.
3. Write types of biogeochemical cycles.
4. Write phases of biogeochemical cycle.
5. What is respiration?
6. What is Photosynthesis?
7. Write definition of abiotic factors with its example.
8. Write definition of biotic factors with its example.
9. What is decomposition?
10. Comment on nitrogen fixation.
11. What is denitrification?
12. Write definition of photodissociation.
13. Write name of meteorological parameters.
14. What is mean by GIS and give its two applications.
15. What is mean by remote sensing and give its two applications.
16. Write two principles of GIS.

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- **4 Marks Questions:**

1. Explain the term GIS.
2. Explain the term remote sensing.
3. Explain the term meteorology.
4. Draw the diagram of carbon cycle.
5. Draw the diagram of nitrogen cycle.
6. Draw the diagram of oxygen cycle.
7. Draw the diagram of phosphorus cycle.
8. Draw the diagram of sulphur cycle.
9. Write application of remote sensing.
10. Write applications of GIS.
11. Explain phases of biogeochemical cycle.
12. Write types of biogeochemical cycle.
13. Write note on wind roses.
14. Write principles of remote sensing.
15. Write note on principles of GIS.

- **6 Marks Questions :**

1. Explain carbon cycle with diagram.
2. Explain nitrogen cycle with diagram.
3. Explain oxygen cycle with diagram.
4. Explain sulphur cycle with diagram.
5. Explain phosphorus cycle with diagram.
6. Write note on law of thermodynamic.
7. Write note on heat transfer process.
8. Write note on meteorology and explain its parameters.
9. Write note on applications and principles of GIS.
10. Write note on applications and principles of remote sensing.
11. Write note on land cover/ land use planning.
12. Write note on urban sprawling.

- **12 Mark Questions-**

1. Explain biogeochemical cycle and add note on gaseous cycles.
2. Write note on meteorology and explain its parameters and add note on wind roses.
3. Explain GIS and write note on its applications and principles.
4. Write note on remote sensing and give its applications and principles.
5. Write note on energy and explain law of thermodynamics and heat transfer processes.