

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA
School of Engineering and Technology Parlakhemundi

Environmental Science
Common to all branches

Module-1:

Section-A (Short answer question)

1. What is the scope of environmental studies?
2. How would public awareness help protect our environment?
3. Sukinda mines, Odisha have been identified as third polluted place in the World. What is the cause of the problem?
4. Write the causes of protest made by various environmental activists for the construction of a dam?
5. Write any six applications of solar energy collected through solar collector.
6. What do you mean by biosphere?
7. Write the meaning of undernourishment, malnourishment and overnutrition.
8. What is the importance of decomposers in an ecosystem?
9. Differentiate between GPP and NPP.
10. Write the difference between renewable and non-renewable energy.
11. Write any three effects of mineral extraction and use.
12. Define the terms with suitable example and significance (a) Food Chain (b) Food web (c) Pyramid of energy
13. Explain the detritus food chain with diagram
14. Draw the schematic diagram of energy flow and material flow in an ecosystem.
15. Justify your answer: the pyramid of energy can never be inverted.
16. What is the significance of food web in an ecosystem?
17. Identify the type of food chain (i) Grass Grasshopper toad snake, (ii) Dead plant / animal Fungi Bacteria
18. list the different natural resources available in our environment and categorize them as renewable and non-renewable resources.

Section-B(Long answer question)

1. Write an explanatory note on the multidisciplinary nature of the environmental science.
2. What are natural resources? How you will classify the global naturalresources?Is forest a renewable / non-renewable resource? Justify.
3. What is deforestation? Enumerate & discuss the various causes and consequences of deforestation?
4. Define and list some renewable and non renewable energy sources. Describe the importance of renewable energy sources in the present context
5. What is geothermal energy? How it is used for generation of electrical power? Discuss its merits & limitations?
6. Write briefly the different environmental problem pertaining to construction of a Dam with some case studies.
7. What are solar cells? Draw a diagram and enumerate its applications.
8. What is nuclear energy? Discuss its two types.
9. Write short notes on (a) tropical rain forests (b) Savannas (c) Arctic Tundra.
10. Write the different components of an ecosystem? Classify biotic components according to the mode of energy acquisition and define each with suitable example