



# VIT

Vellore Institute of Technology  
(Declared to be a University under section 3 of the U.G. Act, 1956)

## Final Assessment Test – April 2019

Course: CHY1002 - Environmental Sciences  
Class NBR(s): 4022 / 4025 / 4026 / 4027 / 4030 / 4031 /  
4036 / 4040 / 4041 / 4042 / 4043  
Time: Three Hours

Slot: D1+TD1

Max. Marks: 100

Answer any TEN Questions

(10 X 10 = 100 Marks)

1. Describe two models which help us to understand the impact of unsustainable living and increasing utilization of natural capital.
2. Correlate the following with nutrient cycles: (i) NO<sub>x</sub> from automobile emission (ii) Concrete payments and constructions in the cities (iii) Agrochemicals (iv) Forest fires (v) Burning coal
3. Describe any five threats which affect diversity of species on this planet.
4. Water conservation methods should be practiced starting from the origin of a river to the point at which it mixes with ocean. Justify this with suitable examples.
5. In future, municipal solid waste could become a source of energy in cities. Explain with neat diagram.
6. Suggest some green alternative fuels which could be produced using plant matter, and water and mention their advantages and disadvantages.
7. What are the components involved in environmental impact assessment (EIA) and environmental impact statement (EIS)? Describe the different steps involved in obtaining EIA in India.
8. Give the salient features of forest conservation act (1980) and environment protection act (1986).
9. Using population age structure, the projected growth of population in a country could be estimated. Validate the above with suitable diagrams.
10. Elucidate how economic tools can be used to protect environment from damage.
11. Explain the mechanisms prescribed by Kyoto protocol to curb global warming. How do the different carbon sequestration techniques complement the aim of Kyoto protocol?
12. Describe the hazards caused by BPA, mercury and phthalates contaminants on the environment.

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Ansul

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