




**VIT**  
UNIVERSITY  
(Estd. u/s 3 of UGC Act 1956)  
**VELLORE ■ CHENNAI**  
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**SCHOOL OF ADVANCED SCIENCES**  
**Continuous Assessment Test – II, October 2016**  
**Fall Semester 2016 ~ 17**

Course Code	: CHY1002	Duration	: 90 minutes
Course Name	: Environmental Sciences	Max. Marks	: 50
Slot	: G2	Date	: 08.10.2016
Class number	: 7338,7346,7354,7362, 7447, 7457, 7490,8685,8775	Time	: 9:00-10:30 AM
Faculty Names	: Profs. Akhila Maheswari M, Barnali Maiti, Madhumitha G, Napoleon A A, Priyanka Paira, Sangeetha P, Satish Kumar G, Sriraghavan K, Thirumoorthy K		

*Instructions: Students are allowed to carry their self-hand written note books/papers and prescribed text books or it's photo copy to the examination.*

**Answer ALL the Questions 10 x 5 = 50 Marks**

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1. Industry and transport sectors are the main users of energy in India, so how will you reduce the pollution and conserve the energy at these point sources.
  2. Relate India's virtual water deficit with the American soft-drink giant Coca-Cola.
  3. How do we depend heavily on oil and how does it affect Indian economy?
  4. As a part of water conservation effort, make a model for desalination of water with use of solar energy.
  5. Why much of the e-waste in USA is shipped to China and other developing countries? Explain its strategic and economic outcomes.
  6. How can scientists decide which factors are actually responsible for climate change? List out the evidences that humans are significantly affecting climate. Develop a model to prove that humans are causing climate change?
  7. Comment on how the water resource utilization becomes the major threats of society and mention its implications on politics of survival.
  8. The worst oil spill disasters happened in California, USA. What is your learning from those incidents? Provide solutions to tackle such a situation.
  9. How will you provide a clean and reliable source of carbon-free electricity by using non-renewable energy source? If a major disaster happens with that in near future, what will be the safety measures that would be adapted?
  10. Comment on cadmium-tainted rice in Asia and its potential risks to human health.