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Final Assessment Test - November 2016

Course: CHY1002 - Environmental Sciences
Class NBR(s): 7334 / 7342 / 7350 / 7358 / 7442 / 7452 / 7495 / 8289 / 8751 / 8772
Slot: G1
Time: Three Hours
Max. Marks: 100

PART – A (10 X 4 = 40 Marks)
Answer ALL Questions

1. Discuss any one model of energy flow in an ecosystem with neat sketch.
2. "Ozone is a life savior, if present in stratosphere; but is a pollutant, if present in troposphere". Justify the statement.
3. Elaborate how invasion by an alien species reduces the species diversity of an area.
4. Describe at least two approaches each for ex-situ conservation and in situ conservation as a strategy for biodiversity conservation with example.
5. Infectious diseases are major health threats to human health. Explain any four approaches to prevent or reduce the occurrence of infectious diseases.
6. What is photochemical smog? Explain how it is polluting the air with a case study.
7. Would you object to have a wind farm located near where you live? Justify your answer.
8. Explain the terms 'Waste-to-energy' and 'Waste-to-wealth' with example.
9. Why it is necessary to involve the public in the process of EIA? Mention the key elements of EIA.
10. "Population, consumerism and waste production are inter-related"-- Comment.

PART – B (6 X 10 = 60 Marks)
Answer any SIX Questions

11. Explain Nitrogen Cycle with the help of a diagram. Mention how human activities affect this cyclic process. **[10]**
12. How do species interact? Explain any five types of interactions between species with example. **[10]**
13. Explain any five enhanced CO_2 capturing technologies to reduce the impact of fossil fuel scorching to the environment. **[10]**
14. Designate how energy can be produced by using i) natural occurring steam fields ii) Ocean water. **[10]**
15. Discuss the various schemes launched for child and women welfare in India. **[10]**
16. How can Age-Structure Pyramids serve as useful tool for predicting population growth trends in nation? Explain with example. **[10]**
17. We can design buildings that save energy and money. Explain the ways in which the building you designed to be more energy-efficient? **[10]**
18. a) Enlighten the Climate-Change protocols which linked to reduction of greenhouse gases and CFC in detail. **[5]**
    b) Discuss briefly on solid wastes and their sources. Explain any three methods to discard solid wastes. **[5]**

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