

**THE CATHEDRAL AND JOHN CONNON SCHOOL**  
**PRELIMINARY EXAM – JANUARY 2008**  
**ENVIRONMENTAL SCIENCE**

**DATE: 11.1.08**  
**STD X**

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**MARKS : 80**  
**TIME: 2 hours**

Answer **all questions from Part I.**  
From Part II answer **four out of the six questions**

PART I

(20 x 2 = 40 marks)

1. State the disadvantages of sewage sludge
2. Give two reasons why small farmers prefer mixed cropping
3. What are rain forests? Name two countries with rain forests
4. How does a national park differ from a sanctuary? Give an example of each
5. Mention two benefits of paper recycling
6. What is green manure? What advantages does it have?
7. What are GM foods? What are its disadvantages?
8. What is another name for windbreak? Why is it important?
9. Name the four chief sources of toxic pollutants.
10. What are Biosphere reserves and which programme protects them?
11. Define wetlands. Name one wetland in India
12. What is the Taj Mahal Trapezium? Name two protective measures used here.
13. What is CBD, and what are its goals?
14. Name two ways in which biotechnology has helped agriculture.
15. What is marsh gas and how is it a pollutant?
16. What is the Greenpeace Agency and what function does it perform?
17. What is POP? Name one.
18. What was the main objective of the Montreal Protocol and the Kyoto Protocol?
19. What are physically dry soils and what is CPGR?
20. Name one
  - a. nuclear disaster
  - b. industrial accident
  - c. major oil spill
  - d. air pollution episode

**PART II**  
**Answer any four questions**

- Q1 a. What are the risks of Biotechnology? (2)  
b. Why is the baranaja system superior to monoculture? (4)  
c. What are the advantages of integrated pest management along with integrated development in rural areas? (4)
- Q2 a. How does a cyclone separator work? (2)  
b. Discuss four different methods of controlling vehicular pollution. (4)  
c. How can we minimize sulphur dioxide as a pollutant? (4)
- Q3 a. What is social forestry? (2)  
b. Why did Vanmahotsav fail? (4)  
c. What are the advantages of involving the local community in any programme? (4)
- Q4 a. Explain the four stages of demographic transition. (2)  
b. What is the role of women in family planning? (4)  
c. Discuss the role of women in protection and conservation of bio-diversity. (4)
- Q5 a. In what ways does the first world consume more than the third? (2)  
b. What are the areas of conflict between the North and the South over sustainable development? (4)  
c. What is the role of multinationals in this debate? (4)
- Q6 a. What leads to water scarcity? (2)  
b. Suggest effective ways to manage water (4)  
c. What are the arguments against big dams? (4)
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