

05Q TRIBHUVAN UNIVERSITY  
INSTITUTE OF ENGINEERING  
**Examination Control Division**  
2074 Bhadra

Exam.	Regular		
Level	BE	Full Marks	80
Programme	BCE	Pass Marks	32
Year / Part	IV / II	Time	3 hrs.

**Subject:** - Environmental Management System (Elective II) (CE76517)

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

**Group A: Long Questions**

1. What are the process of getting Environmental Management System (ISO 14001) initial certification? Sketch Edward Deming's cycles. [5+5]
2. Describe about off-site and on site wastewater management systems. [5+5]
3. What is the "greenhouse effect"? Describe the Air Pollution Control Techniques for controlling emission of various particulate and gaseous air pollutants? [2+8]
4. Define solid waste management? Explain briefly the various methods of waste disposal Nepal. [2+8]
5. What are the tools and techniques for prevention of pollution? Describe the cleaner production methodology. [5+5]
6. What is Environmental Management programme (EMP)? How do you formulate these programs in order to achieve set target? Explain in detail with due consideration of ISO 14001 requirements. [2+8]

**OR**

Explain the principle, process and techniques used for assessment and management of environmental aspects and impacts.

**Group B: Short Questions**

7. What are the major sources of Noise Pollution? [4]
8. Define eco-toxicology. What are the factors that influence Toxicity? [4]
9. Write about Energy Efficiency Methods and Techniques. [4]
10. Briefly write about the flexible mechanisms under Kyoto Protocol. [4]

**Group C: Write short notes**

11. a) ISO 14000 Series and Standards [2]
- b) Ambient Air Quality standard of Nepal [2]