



# Environmental Studies

December 17

First Year (Semester 1)

**Total marks: 60**

**Total time: 2 Hours**

## INSTRUCTIONS

- (1) Question 1 is compulsory.
- (2) Attempt any **three** from the remaining questions.
- (3) Draw neat diagrams wherever necessary.

### Q1) Attempt any five:

- 1(a)** Explain depleting nature of forests: causes, effects and prevention. (3 marks)
- 1(b)** Explain the concept of socio-economic aspects of sustainable development. (3 marks)
- 1(c)** What is meant by 'greenhouse effect'? (3 marks)
- 1(d)** Write a short note: Environmental Clearance mechanism. (3 marks)
- 1(e)** What are limitations of conventional energy sources? (3 marks)
- 1(f)** Write a short note on 'water crisis'. (3 marks)
- 1(g)** Explain the concept of 'carbon credit'. (3 marks)
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- 2(a)** Write a detailed account of 'Chipko Movement'. (5 marks)
- 2(b)** What are '3R control measures? (5 marks)
- 2(c)** Define 'noise pollution'. Which are its sources? What are its health effects? (5 marks)
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- 3(a)** Explain principle, construction and working of electrostatic precipitator. (5 marks)
- 3(b)** Discuss the cloudburst and landslide at Kedarnath. (5 marks)
- 3(c)** How electricity is generated from wind energy? (5 marks)



**4(a)** Discuss the case study of 'London smog'. (5 marks)

**4(b)** Write in details: Food chain and food web. (5 marks)

**4(c)** Write a note on: Green buildings Concept and objectives. (5 marks)

**5(a)** What is land pollution? Discuss solid waste management. (5 marks)

**5(b)** Which are renewable energy resources? Write about their importance. (5 marks)

**5(c)** Write on: Functions and powers of Central pollution control board. (5 marks)

**6(a)** What is nuclear pollution? Discuss Fukushima disaster. (5 marks)

**6(b)** What is an ecosystem? Discuss the classification of ecosystem with examples. (5 marks)

**6(c)** Draw a schematic diagram of photovoltaic cell. Explain its principal and working. (5 marks)