

- N.B. : (1) Question No.1 is **compulsory**.
(2) **Attempt** any **three** question from **Q.2** to **Q.6**.
(3) Draw **neat labelled** diagram wherever **applicable**.
(4) Figure to **right** indicate **full** marks.

1. Attempt **any five** from following :- 15
- a) What is sustainable development? Why there is need for sustainable development?
 - b) Differentiate between : Renewable and Non-renewable sources of energy.
 - c) What are the causes and effects of E-pollution ?
 - d) Write important functions of Central Pollution Control Board (CPCB).
 - e) Explain concept of Carbon Credit. www.muadda.com
 - f) What is Nuclear pollution? What are its sources and effects?
 - g) What is Ecological Sucession?
2. a) Explain Social and Economic aspects of sustainable development. 5
b) Draw a neat labelled diagram of Electrostatic Precipitator and explain how it is useful to control gaseous particulate emissions? 5
c) What is Hydropower? Draw a suitable diagram and explain how hydropower is generated. 5
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3. a) What is solid waste? Explain solid waste management by incineration. 5
b) Write important functions and powers of State Pollution Control Board. 5
c) Write a case study on Cloudburst and Landslides at Kedarnath in June 2013. 5
4. a) Explain global environmental crisis pertaining to population. 5
b) Explain environmental consent and authorization mechanism. 5
c) Draw a neat diagram of wind turbine and explain how it helps in energy production. 5
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5. a) Explain how resource utilization as per carrying capacity is an important control measure for sustainable development. 5
- b) Write a case study on pollution of Ganga River. 5
- c) Draw a schematic and explain principle and working of photovoltaic cells. 5
6. a) Explain the causes and effects of depletion of natural water resources. 5
- b) Write a note on industrial waste water treatment. 5
- c) What is Disaster Management? Explain how techniques of disaster management are implemented in the event of earthquake. 5

