

M.Sc. (Part-II) (Environmental Science) CBCS Pattern Semester-IV
PSCENVT15A - Core Elective-XV : Environmental and Energy Management

P. Pages : 1

Time : Three Hours



GUG/W/23/11378

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagrams and examples.

1. Discuss impact of industrial waste on air, w.r.t. to pulp and paper and cement industry. **16**
- OR**
- a) Explain pollution abatement measures adopted by industry. **8**
- b) Briefly explain cleaner technologies. **8**
2. Discuss environmental management system w.r.t. ISO 14001. **16**
- OR**
- a) Briefly explain environmental auditing. **8**
- b) Discuss EMS w.r.t. 14024-Environmental labeling. **8**
3. Discuss environmental effects of energy use w.r.t. coal and petroleum. **16**
- OR**
- a) Describe socioeconomic implications of energy use pattern. **8**
- b) Briefly explain sources of primary energy. **8**
4. Discuss renewable energy technology w.r.t. solar and wind electricity. **16**
- OR**
- a) Write a brief note on energy from solid waste. **8**
- b) Briefly explain hydrogen as future energy source. **8**
5. a) What is end of pipe technology? **4**
- b) Write about EMS in small scale industries. **4**
- c) Explain methods of energy conservation. **4**
- d) Write a note on biochar production. **4**
