

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

P. Pages : 1

Time : Three Hours



GUG/S/25/11378

Max. Marks : 80

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

1. What are the types of industrial waste from paper and pulp and coal mining industries? Describe their impacts on air, water and soil. **16**

OR

- a) What is the contribution of effluent standards for disposal of treated waste water in India. **8**
b) Explain collaborative efforts of government, market and community for greening the industry. **8**

2. Discuss in detail the environmental auditing and related activities Covered in ISO :14010 - ISO : 14015. **16**

OR

- a) How EMS in small scale industries can be established? **8**
b) Explain specification of ISO-14001 in EMS. **8**

3. Discuss in detail the conventional source of energy. **16**

OR

- a) Discuss environmental issues in relation with energy use. **8**
b) What are the measures impacts of energy consumption on climate change? **8**

4. Describe wind energy as renewable source of energy. **16**

OR

- a) Write elaborative note on energy economics. **8**
b) Explain anaerobic digestion are effective to treat high solids containing organic wastes. **8**

5. a) Describe end of pipe technology as option for greening industry. **4**

b) Give product specification of ISO guide 64. **4**

c) Enlist the measures of energy conservation. **4**

d) Explain fuel switching as advanced technique. **4**
