PSCENVT11A - Core Elective Paper-XI : Air Pollution Control

P. Pages : 1

GUG/W/23/11263

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6286

Time : Three Hours

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. Explain stationary and mobile sources of air pollution. **16**

OR

a) Describe the activities responsible for deterioration of urban air quality. **8**

b) Explain primary and secondary air pollutants. **8**

2. Discuss principle and working of high volume sampler. **16**

OR

a) Explain dust fall jar method for particulate sampling. **8**

b) Describe electrostatic precipitation method for atmospheric sampling. **8**

3. Explain improved West and Gaeke's method for measurement of SO_2. **16**

OR

a) Describe sampling train. **8**

b) Explain isokinetic sampling. **8**

OR

4. Describe fabric filters used to control particulate emission. **16**

OR

a) Explain methods of gaseous emission control w.r.t. adsorption and absorption. **8**

b) Discuss how carbon sequestration can be done through forestry. **8**

5. a) Discuss air quality of major cities of India. **4x4 =16**

b) Explain how location of air sampling site is carried out.

c) Write significance of stack monitoring.

d) Explain need of green belt development around industries.

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