

M.Sc.- II (Environmental Science) (CBCS Pattern) Sem-III  
**PSCENVT11-A - Paper-XI - Core Elective : Air Pollution Control**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11263**

Max. Marks : 80

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

1. Discuss in brief indoor air quality of urban and rural area 16
- OR**
- a) Compare the air quality of major cities of India. 8  
b) Explain in brief about urban heat island phenomenon. 8
2. Describe basic consideration and various instruments used for air sampling. 16
- OR**
- a) Explain gaseous sampling methods for ozone and ammonia. 8  
b) How heavy metals can be analyzed in SPM? 8
3. Discuss stack monitoring w.r.t its significance, planning and sampling point. Add a note on isokinetic sampling. 16
- OR**
- a) Enlist in detail stack monitoring parameters. 8  
b) Write elaborative note on plume behaviour. 8
4. Discuss flue gas desulfurization and NO<sub>x</sub> removal as cleaner technologies. 16
- OR**
- a) Explain atmospheric cleansing process in detail. 8  
b) Describe the method for development of green belt around industries. 8
5. a) Write a note on model of indoor air quality. 4  
b) Explain organic gaseous pollutants w.r.t hydrocarbons. 4  
c) Explain lapse rate in detail. 4  
d) Describe wet collectors briefly. 4

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