

M.Sc.(Final)(Environmental Science)(CBCS Pattern) -Regular-Semester 2017 Sem III  
**PSCENVT11-1 - Paper-XI : (Core Elective) : 1.Air Pollution Control**

P. Pages : 1

Time : Three Hours



**GUG/S/18/10108**

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. Define air quality. How natural and manmade factors influence air quality? Comment on activities for deterioration of urban quality. **16**

**OR**

- a) What is infiltration and ventilation? How it affects indoor air quality? **8**  
b) With suitable examples state stationary and mobile sources. Write a note on fugitive emissions. **8**

2. State the principle involved in high volume air sampler. Describe its components and working. **16**

**OR**

- a) Explain method for sampling and analysis of benzene. **8**  
b) Describe method for heavy metals analysis in SPM. **8**

3. Describe methods for measurement of temperature, velocity and moisture content from a stack. **16**

**OR**

- a) How stack monitoring planning is carried out? State significance of stack monitoring. **8**  
b) Explain construction and working of cascade impactor. **8**

4. Explain atmospheric cleansing process. With a neat sketch explain construction and working of centrifugal collectors. **16**

**OR**

- a) Describe the method for development of green belt around on industry. **8**  
b) Explain condensation and flooring as methods for air pollution control. **8**

5. a) Write a note on indoor air quality model. **4**

b) Briefly explain sampling and analysis method for hydrocarbon. **4**

c) How pressure system influence air pollutants? **4**

d) Describe gravitational settling chamber. **4**

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