

**R09****Code: 9A01706**

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

**AIR POLLUTION & CONTROL**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Classify air pollutions into different categories, indicating their sources.  
(b) Discuss in brief about air pollution episodes.
- 2 (a) Enlist the factors influencing the deterioration of material due to air pollution and discuss the mechanisms of deterioration of material due to air pollution.  
(b) Write a note on acid rain.
- 3 With neat sketch, discuss in detail on the atmospheric stability.
- 4 (a) List out the meteorological factors influencing air pollution and explain the role of meteorological elements in the dispersion of air pollutants in the atmosphere.  
(b) Write a note on wind direction recorder.
- 5 Describe with neat sketches, how different atmospheric conditions give rise to different kinds of plumes.
- 6 Explain the principle and working of cyclone separators used for removal of air pollutants, with a neat sketch. Also discuss its advantages and disadvantages.
- 7 Discuss in detail the methods employed for controlling the gaseous contaminants and explain any one method in detail.
- 8 (a) Write about the equipments employed for sampling gases and vapor. Also describe anyone in detail.  
(b) Write a note on air quality standards.

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