

5E1346	Roll No. _____	[Total No. of Pages : 2]
	5E1346	
B.Tech. V - Semester (Main) Examination, Nov. - 2019		
PCC/PEC Civil Engineering		
5CE511 Air & Noise Pollution and Control		

Time : 2 Hours

Maximum Marks : 80

Min. Passing Marks : 28

Instructions to Candidates:

Attempt all five questions from Part A, four questions out of six questions from Part B and two questions out of three from Part C.

(Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly). Units of quantities used/calculated must be stated clearly.

PART - A

(Answer should be given up to 25 words only)

All questions are compulsory

(5×2=10)

1. Explain the phenomenon of Self - cleansing of atmosphere,
2. What is meant by Smog? State the harmful effects of smog.
3. Differentiate between Coning and Fanning.
4. What is meant by Acoustic reflex?
5. Differentiate Air - borne noise and Structure - borne noise.

PART - B

(Analytical/Problem solving questions)

Attempt any four questions

(4×10=40)

1. What are the harmful effects of sulphur dioxide, carbon monoxide and particulate matter on human beings?
2. Explain the natural and un-natural sources of air pollution.
3. What do you understand by Aerosols? Briefly describe various types of aerosols along with their characteristics.
4. Discuss the consequences of Ozone layer and Green house effect.
5. Differentiate between continuous noise, intermittent noise and impulse noise and their effects.
6. Define Noise and explain as to how and why it should be regarded as an environmental pollutant.

5E1346 /2019

(1)

[Contd....

(Descriptive/Analytical/Problem Solving/Design Questions)

Attempt any two questions

(2×15=30)

1. a) What is plume rise? Explain with neat sketches, how different atmospheric conditions give rise to different kinds of plumes. (8)
- b) With a neat sketch explain the principle, construction and working of cyclone separator. (7)
2. a) Explain in detail about the method of sampling suspended particulates by a High Volume air sampler. <http://www.rtuonline.com> (8)
- b) What are the pollutants emitted by different vehicles with different type of fuels? Discuss their negative impacts and suggest the control measures. (7)
3. a) Write explanatory notes on the following :
 - i) Noise rating systems.
 - ii) Sources of noise and their noise levels (2×4=8)
- b) What are the measures which may be taken to have an effective control on noise pollution? (7)

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