**Total No. of Questions : 10]**

**SEAT No. :** ____

**P3772**

**[Total No. of Pages : 2**

# [4760]-79
# M.E. (Civil-WREE)
# AIR POLLUTION ENGINEERING
## (2012 Course) (Elective-I) (Semester-I)

***Time : 3 Hours]*** ***[Max. Marks : 100***

***Instructions to the candidates:***

1) ***Answer any three questions from section-I and section-II.***
2) ***Each question carries equal marks.***
3) ***Figures to the right indicate full marks.***
4) ***Your answers will be valued as a whole.***
5) ***Assume suitable data, if necessary.***

## SECTION-I

***Q1)*** a) Discuss physics of atmosphere.

b) Discuss about Pasquil stability model.

***Q2)*** a) Explain how eddy diffusion model is useful.

b) Discuss sampling time correction.

***Q3)*** Give note on following:

a) Maximum Ground level concentration.

b) Line source and point source.

***Q4)*** Explain how stack height determined? Assume suitable data for explanation.

***Q5)*** Discuss the following:

a) Control of odour pollution.

b) Air pollution Survey.

c) Stack emission monitoring.

***P.T.O.***

## SECTION-II

***Q6)*** Explain in details about:

a) Terminal Settling Velocity.

b) Sources of SPM.

c) Iso-kinetic sampling.

***Q7)*** Explain the working of following with suitable sketches (Any Two):

a) Electrostatic Precipitators.

b) Settling Chambers.

c) Wet collector.

***Q8)*** Give note on the following and explain (Any Two):

a) Principle of absorption.

b) Control of Nox.

c) Incineration.

***Q9)*** Discuss any one method in detail to reduce emissions from automobile sources.

***Q10)***Discuss the strategy for effective control of air pollution in India.

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