## 320844(20)

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Civil Engg. Branch)

## AIR POLLUTION and CONTROL MEASURES

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) is compulsory in each question. Attempt any two parts from (b), (c) and (d) part of each question.

## **Unit-I**

- 1. (a) Define Air Pollution.
  - (b) Briefly explain the classification of pollutants, also write about their characteristics and sources. 7

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	(c) Describe stack sampling techniques and also describe	
	the selection of sampling location.	7
	(d) Write short notes on:	7
	(i) Photochemical smog	
	(ii) Stack gases	
	(iii) Aerosols.	
	fulgate Unit-II	
2.	(a) Explain Meterology.	2
	(b) Describe the classification of plume behaviours with well labelled diagram.	7
	(c) Explain in brief Gaussian plame model with assumptions and limitations.	7
	(d) Write short notes on:	7
	(i) Wind Rose	
	(ii) Wind profile	
	Unit-III amullos 134-yastori pro	
3.	(a) What is particulate matters.	2

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(b) Describe the removal techniques adopted for	or
particulate matter.	7
(c) Explain in brief effect of Sox on plant, animal, huma	an
and material.	7
(d) Write short notes on:	7
(i) Control and prevention of sox	
(ii) Nox sources	
(iii) Effect of Nox on plant	
Unit-IV	
4. (a) Write the any five name of special diseases caused	4
by air pollution.	2
(b) Describe the effects of photochemical smog or	
plants.	7
(c) Describe the mechanism of deteriroration in polluted	1
atmosphere.	7
(d) Explain the various kind of injury to plant due to air	
pollutants.	7
Unit-V	
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5.	(a) Write the full form of PAN?
	(b) Describe the principle and construction of fabric
	filters with well labelled diagram. What are the factor
	affecting the efficiency of fabric filters?
	(c) Write short notes on:
	(i) Acid Rain
	(ii) Ozone Layer depletion
	(d) Write a short note on Air pollution control act.
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	Vision 1