P-5183



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

[Max. Marks: 30

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B.E. (Civil) (Insem.) AIR POLLUTION & CONTROL

(2019 Pattern) (Semester - VII) (Elective - IV) (401004A)

Time : 1 Hour]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume any other data, if necessary.
- Q1) a) What are zones of atmosphere and explain any 2 layers of atmosphere.[4]
 - b) Explain Air Pollution accident on Bhopal Gas Tragedy 1984. [6]
 - c) Define Air Pollutants and what are effects of air Pollutants on Human health. [5]
- **Q2)** a) If your car consumes 12.5 liters of diesel per day 120 km and the total distance covered by you is 280 km. how much CO_2 is added to your personal carbon footprint. [4]
 - b) Explain Air ACT 198.P.

c) What do you understand from NCAP, Explain in brief [5]

Q3) a)	What are the Scales of Meteorology? Explain	[5]
b)	Explain Plume Rise and how it is estimated?	[5]

c) Determine the effective stack height by using following data.

Physical stack height = 136 m, diameter of stack = 2m, wind velocity 4m/s, Ambient temperature = 27° C, having Barometric pressure = 1300 millibar, stack gas velocity = 15 m/s, stack, gas temperature = 180° C.[5]

[6]

- **Q4**) a) What are different behavior types of Plume, state coning plume and looping plume. [5]
 - What are the limitations of Gaussion Diffussion model? b) [5]
 - Calculate for Thermal power plant burns 180 tonnes of coal with 6.9 % c) of Sulphur content. Find The minimum stack height required. The Are all and a second and a seco particulate concentration in fuel gases is 14 g/m^3 and the gas flow rate is [5]

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