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Vellore Institute of Technology

Winter Semester 2019-20

Program Name & Branch: B Tech Civil Engineering

Course Name & Code: Pollution Control & Monitoring & CLE 2019

Exam Duration: 90 mins

Maximum Marks: 50

Faculty Name: Bhaskar Das

Class Number: 6024 Slot: B2

Exam Mode: Closed book

Continuous Assessment Test – II

General instruction(s): NA

Section - A (5 x 10 = 50 Marks)

(a) Identify two primary pollutants in photochemical smog and explain the formation of secondary 1. pollutant. [5]

(b) List the main greenhouse gases and their sources and discuss their relative effects.

[5]

- What is the best technology for removal of particulate matter from air? Give your justification with sketch and operating procedure.
- Explain the working principle of Falling Film Evaporator with neat sketch. 3.
- (a) How the decentralized water treatment can be integrated into a flexible wastewater system? [5] (b) Why there is no dilution benefit in the decentralized wastewater treatment compared with the centralized system? [5]
- (a) Find the migration velocity for an existing electrostatic precipitator, which the collection plate 5. area is 110 m², gas flow rate is 2.5 m³/s, and collection efficiency is 99.5%. [5]
 - (b) Estimate the wind speed at an elevation of 400 m in rough terrain, if the atmosphere is slightly unstable. Assume an anemometer at a height of 10 m above ground measures the wind speed at 2.5 [5]