Reg. No.



VI SEMESTER B.TECH. END SEMESTER EXAMINATIONS APRIL- 2019

SUBJECT: PROGRAM ELECTIVE II – POLLUTION CONTROL ENGINEERING [CHE- 4007]

REVISED CREDIT SYSTEM (30/04/2019)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

Answer ALL the questions.

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1A.	"Prevention is better than cure". Justify the statement as applied to pollution control in process industries.	04
1B.	Define i) adiabatic lapse rate ii) Inversion	02
1C.	Explain principle and working of NO - NO ₂ Chemiluminescent analyzer.	04
2A.	Compare and contrast between activated sludge process and trickling bed filters.	03
2B.	Explain with a neat sketch the principle and working of sampling train. What are the necessary precautions to be taken during the sampling?	04
2C.	Differentiate between BOD, COD and TOC	03
3A.	With sketches, explain different plume behaviors under stable and unstable lapse rate conditions.	06
3B.	Differentiate between epidemiological and toxicological studies on effects of air pollution.	02
3C.	Differentiate between smog and photochemical smog	02
4A.	What are the characteristics of effluents generated from a petroleum refinery? Explain the methods of control and abatement of pollution in this complex.	05

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