

**VIT[®]****Vellore Institute of Technology**
(Deemed to be University under section 3 of UGC Act, 1956)**Continuous Assessment Test – I****Programme Name & Branch: B.Tech Chemical Engineering****Course Name & Code: Chemical Technology, CHE1004****Class Number: VL2019201001168****Slot: A1****Exam Duration: 90min Maximum****Marks: 50**

S.No.	Answer All Questions. (5 x10 = 50 Marks)*
1.	Explain in detail a process for obtaining sulfur from natural gas by oxidation and reduction process required for sulfuric acid production, What are chemical reactions involved.
2.	Describe with the neat flow diagram, the manufacture of sulfuric acid and Oleum by contact process, what are the chemical reaction involved.
3.	Describe with the neat flow diagram, the manufacture of ammonia from natural gas, what are chemical reactions involved.
4.	Explain with a neat diagram for the manufacture of producer gas and mention its composition and application. What are chemical reactions involved.
5.	What is called cracking? Explain Fluid bed catalytic cracking process with diagram.

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