

SEM I CHEMISTRY (HONS) INTERNAL EXAMINATION 2021

Subject Code : CEMHT2

Full Marks : 10

Time : 30 mins

Date : 11/03/21

ANSWER ANY FIVE QUESTIONS:

2×5=10

- (1) For the gas obeying the equation $P(V-b)=RT$, What will be the value of $(\delta H/\delta P)_T$?
- (2) A gas in expanding against a constant pressure of 2 atm from 10 to 20 litres absorbs 300cal of heat. What is the change in internal energy?
- (3) What is an equation of state?
- (4) Write van-der-waals equation and the dimensions of 'a' and 'b'?
- (5) 'A zero order reaction cannot be a single step reaction 'Justify.
- (6) Pseudounimolecular reactionsexplain with example.