

**Date: 03/05/2021
10/05/2021**

Date of submission –

ASSIGNMENT -1
Subject – Chemistry Theory -1(BTCH-101-18)
2nd Semester (CSE/IT)
Even Semester (2020-21)

Solve all questions. Assignment will be of total 10 marks

Q.1(a). On the basis of VSEPR theory draw the shapes of: (i) PCl_5 (ii) H_2O

CO - 4

Q.1(b). Define the terms: (i) Effective nuclear charge (ii) Coordination number
CO - 4

$2 \times 2 = 4$ marks

Q.2. Discuss Schrodinger wave equation upto laplacian operator. Also explain eign values and eign fuctions?

CO-1
=3marks

Q.3. Explain optical activity. What is the essential condition for a compound to be optically active?

CO - 6

=3marks