



Shree H.N.Shukla College of Science

B.Sc.(Sem-II)(Chemistry)(CBCS)

Paper 201: Chemistry

Unit test-1

Date: 15/04/21

Time: 45 min.

[Total- 30 mark]

Q-1(A) Answer the following Questions [5]

- 1) Give general formula of cycloalkanes
- 2) In cycloalkanes repetitive unit is _____ group.
- 3) The smallest cycloalkanes is _____
- 4) Give definition of Dihedral angle.
- 5) Give definition of Conformational analysis

(B) Answer any one of the following Questions [2]

- 1) Explain Simmon-smith method to preparation of cycloalkanes.
- 2) Write limitation of Bayer's strain theory.

(C) Answer any one of the following Questions [3]

- 1) Give any two method of preparation of small-ring cycloalkane
- 2) Give any two substitution reaction of cycloalkane

(D) Answer any one of the following Questions [5]

- 1) Describe Baeyer strain theory.
- 2) Explain conformational study of n-butane.

Q-2(A) Answer the following Questions [5]

- 1) Define Ionization isomerism.
- 2) What is a stereo-isomer?
- 3) Give the max born equation for lattice energy.
- 4) What is the Frenkel defect?
- 5) Give the example of AB type crystal.

(B) Answer any one of the following Questions [2]

- 1) Explain coordination position isomerism with example.
- 2) What is the limiting radius ratio ? give usefulness of limiting radius ratio.

(C) Answer any one of the following Questions [3]

- 1) Explain Geometrical isomerism in 4- coordinate complex compound.
- 2) Explain extrinsic semiconductor.

(D) Answer any one of the following Questions [5]

- 1) Explain the Born Haber cycle briefly.
- 2) Explain stoichiometric defect in crystal lattice.
- 3) Explain optical isomerism in 6-coordinate complex compounds (octahedral complexes).