

Shivaji College
University of Delhi
Department of Chemistry
Class Test (Academic year 2023-24)

Name of the Course : B.Sc. (P) Life Science with Chemistry

Name of the Paper : Chemical Bonding and elements in biological system

Date : 28.03.23

Maximum Marks 08

Duration : 1 hr

Semester II A

UPC: 2172521201

Faculty Name Dr. Priyanka Kumari

General Instructions:

1. Attempt all questions.
2. Write Course Name, Semester, Date of exam, Title of paper, Roll number and your Name on the top of answer sheet.

Questions:

1. Using VSEPR theory give the shape of molecules 2 Marks
 - I) XeOF_2
 - II) BrF_4^-
 - III) PCl_6^-
 - IV) PO_4^{3-}
2. Derive the borme Lande's equation for lattice energy 2 Marks
3. Write short notes on 4 Marks
 - (a) Radius ratio rules
 - (b) Application of Fajan's rules