JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT T1 EXAMINATION- Sept. 2023 B.Tech III Semester (Civil)

B.Tech III Semester (Civil)	
COURSE CODE: 18B11CE311 (3)	MAX. MARKS:15
COURSE NAME: Chemistry	
COURSE COORDINATOR: Dr. Poonam Sharma	MAX. TIME: 1 Hr
Note: All questions are compulsory.	
Q1 (a). Discuss in brief hydrogen bonds with suitable example.	2[COI]
(b). Explain why Nacl is bad conductor of electricity.	1[COI]
Q2(a). pH measurement is an potentiometric measurement. Explain.	2[COII]
(b). Explain the buffer capacity of an acidic buffer.	2[COII]
Q3. A metal crystallizes in a FCC lattice. The radius of the atom is 0.3 element is 1.54 g/cm ³ . What is this metal?	197nm. The density of the 2[COI]
Q4. Differentiate between.	6[COI,II]
(i) Metallic Conduction and Electrolytic conduction	
(ii). Molecular crystals and Metallic crystals	

Ostwald dilution law and Kohlrausch law

(ii)