

**First Semester B.Sc. Examination, March/April 2022**  
**(CBCS-Semester Scheme)**  
**Paper – I : BIOCHEMISTRY**

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) This paper is for the students of new syllabus : 2014 – 15.  
 2) The question paper has **two** Parts : Part – A and Part – B.  
 3) Answer **any eight** questions from Part – A.  
 4) Answer **any nine** questions from Part – B.

## PART – A

Answer **any eight** of the following questions. **Each** question carries **2** marks. **(8×2=16)**

1. Define accuracy.
2. Mention the factors for the following prefixes  
 a) Kilo                      b) Pico
3. Define electromagnetic spectrum.
4. Draw the shape of 'P' orbitals.
5. What are intermolecular hydrogen bonding ? Give an example.
6. Mention any two properties of covalent compound.
7. State group displacement law.
8. What are hypotonic solutions ?
9. State van't Hoff-Boyle's law.
10. What are buffer solutions ? Give an example.
11. Define surface tension. Give its SI units.
12. How is viscosity related to size and shape of the molecule ?

## PART – B

Answer **any nine** of the following questions. **Each** question carries **6** marks. **(9×6=54)**

13. a) How do you minimise the errors in quantitative analysis ?  
 b) What are significant figures ? (4+2)