**B.Sc. 6th Semester (Honours) Examinations, 2021**

**Subject: Chemistry**

**Course Title: Analytical Methods in Chemistry**

**Full Marks: 15 Time: 1 hour**

*The figures in the margin indicate full marks*

*Candidates are required to give their answers in their own words as far as possible*

1. Answer any one 6
2. Discuss the method of determination of chemical oxygen demand (COD)
3. Discuss the method of determination of biological oxygen demand (BOD)
4. Answer any one 5
5. Discuss the procedure of determination of pH of soil
6. Discuss the procedure of estimation of calcium, magnesium
7. Answer any two 2X2
8. What is ion exchange capacity?
9. What is Rf value?
10. What is the limitation of TLC?
11. Draw the Ni-DMG complex.