

Mahishadal Raj College

B.Sc. (Generic) Internal Examination 2020

(under CBCS pattern)

Semester -IV

Subject: Chemistry

Paper: GE-4 (T + P) Generic Elective-4

Full marks: 20 (T)+10 (P)

Time: 2h

Answer any **one question** from each part

Part-A: Generic Chemistry (Theory)

1. Write a short note on Nernst distribution law and its application.
2. Briefly describe the principle of determining of pH of a solution using hydrogen electrode and quinhydrone.
3. Compare between column chromatography and thin layer chromatography.
4. State the roll of ozone layer to the earth's ecosystem. What is ozone hole?
5. What is acid rain? Briefly describe the effects of acid rain.
6. Elaborate the principle of reverse osmosis with disadvantages of the process.

Part-B: Generic Chemistry (Practical)

1. Write the theory on the determination of total hardness of water by EDTA titration and also write the objective of the experiment.
2. Write the theory on the study of phenol-water phase diagram to determine the critical solution temperature and composition of the system.

send answer paper to this mail id ge4general@gmail.com