

MAHATMA GANDHI UNIVERSITY

FIRST SEMESTER UG PRACTICAL EXAMINATION

Course: **MG1DSCICH100- Fundamentals of Industrial Chemistry**

Model Questions

Time -2 hr.

Total marks: 35

Part-I (20 marks)

Answer any one question with tick mark

1. Determine hydroxide alkalinity, carbonate alkalinity, and bicarbonate alkalinity of the given water sample volumetrically, being supplied with 0.02M HCl solution.
2. Detect the presence of chloride ion in tap water
3. Determine the temporary and permanent hardness of the given water sample. You are provided with approximately 0.02M EDTA.
4. Estimate the total hardness of the given water sample. You are provided with approximately 0.02M EDTA solution and A.R. magnesium sulphate crystals.
5. Determine dissolved oxygen in the given sample of water by iodometric titration, M/100 sodium thiosulphate solution is provided.
6. Estimate the mass of calcium in the given solution of limestone complexometrically
7. Estimate percentage of iron in the given solution of ore sample. A.R. potassium dichromate crystals are provided.

Part-II (5 marks)

8. Write the brief procedure for the experiment in question number in the first 10 minutes.
9. Viva voce (5 marks)
10. Lab report (5 marks)