

DEPARTMENT OF CHEMISTRY
FACULTY OF ENGINEERING AND TECHNOLOGY
SRM UNIVERSITY
CYCLE TEST 1

Subject Title	: Chemistry	Date	: 26.02.2016
Subject Code	: 15CY101	Max. Marks	: 25
Semester	: II	Time	: 3.15 to 4.05pm

Answer all the questions

1. Differentiate between soft water and hard water. (4 Marks)
2. A sample of water is found to contain 80 mg/l $\text{Mg}(\text{HCO}_3)_2$; 62 mg/l MgCl_2 ; 48 mg/l MgSO_4 and 36 mg/l CaSO_4 . Calculate temporary and permanent hardness. (Atomic weights: Ca- 40; H - 1; O-12; Cl - 35.5; Mg- 24; S- 32) (4 Marks)
- 3.
4. What is the principle involved in alkalinity determination? (4 Marks)
5. Explain any three internal conditioning methods for boiler water. (6 Marks)
6. Explain Zeolite process for water softening. (7 Marks)