

Marking scheme for T1 examination

Paper code - U118-1011(T1)

Engineering Chemistry Sem I (2018)

Question number	Sub question number	Marking Scheme
Q.1	a)	Types of hardness - 1 mark, total hardness – 1400 ppm-1 mark, Permanent hardness 728 ppm– 1 mark, Temporary hardness 672ppm– 1 mark (Total- 3 marks)
	b)	Exchange reaction – 1 mark each, Regeneration reaction – 1 mark each
	c)	Definition - 1 mark, primary treatment - 1 mark, secondary treatment with figure - 2 marks
Q.2	a)	2 marks each along with explanation of calculation
	b)	(i) 2 marks (1 mark each) (ii) Absorption of aldehyde and ketone – 1 mark each
	c)	2 marks each – 1 mark for number of signals and 1 mark for multiplicity
Q.3	a)	O_2 required = 0.23 m^3 Theoretical air required = 1.095 m^3 Actual air required = 1.37 m^3
	b)	Definition – 1 mark, advantages and disadvantages – 3 marks