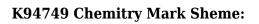
## MARKING SCHEME SAMPLE PAPER (2024 -25)

#### CHEMISTRY THEORY (043)

SECTION A		
1	(c) reacts with Benzenesulphonyl chloride to form a product that is insoluble in alkali	1
2	(b)CH <sub>3</sub> Cl The order followed is this CH <sub>3</sub> I <ch<sub>3Br<ch<sub>3F&lt; CH<sub>3</sub>Cl, though F is most electronegative, the bond length is small as compared to C-Cl. Dipole moment is the product of the charge and the bond length.</ch<sub></ch<sub>	1
3	(a) (i)-(C), (ii)-(B), (iii)-(A)	1
4	(d) 1 =Bromomethane, 2= 2-Bromo-2-methylpropane, 3=2- Bromobutane, 4= 1-Bromobutane	1
	(for visually challenged learners) d. 1-Bromobutane	1
5	(c) the order of reaction is zero as the unit of k is $molL^{-1}s^{-1}$ . Thus half life = $[R]_e$ / $2k$ = $4.62 \times 10^{-2}$ /2 $\times 2.31 \times 10^{-2}$	1
6	(b) Benzoic acid and ethanoic acid  C <sub>6</sub> H <sub>5</sub> COOCOCH <sub>5</sub> H <sub>2</sub> Q C <sub>6</sub> H <sub>5</sub> COOH + CH <sub>3</sub> COOH	1
7	(b) X=[Co(NH <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> ] <sup>-</sup> Cl <sup>-</sup> , Y= 1:3	1
8	(b) Cellulose Starch contains only α glucose, sucrose contains α-D-glucose and β-D-fructose glucose, maltose contains α-D-glucose and cellulose is a polymer of β-D-glucose.	1
9	(d) Ti <sup>3+</sup> < Cr <sup>3+</sup> < Fe <sup>2+</sup> < Mn <sup>2+</sup> No. of unpaired electrons: Ti <sup>3+</sup> (1), Cr <sup>3+</sup> (3), Fe <sup>2+</sup> (4) and Mn <sup>2+</sup> (5) Paramagnetism depends on the number of unpaired electrons	1
10	(d) It never goes to completion  First order reaction [R] = [Ro] e <sup>4t</sup> If [R]=0 then	1

# **K94749 Chemitry Mark Sheme**

**Ying-Ying Zheng** 



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