During the preparation of Mohr's salt solution (Ferrous ammonium sulphate), which of the following acid is added to prevent hydrolysis of Fe^{2+} ion?

(1) dilute hydrochloric acid
(2) concentrated sulphuric acid
(3) dilute nitric acid
(4) dilute sulphuric acid

(d)

Dilute H_2SO_4 do not act as oxidising agent which prevent oxidation of Fe^{+2} into Fe^{+3}. While concentrated H_2SO_4 will oxidise Fe^{+2} into Fe^{+3}.

86 Given below are certain cations. Using inorganic qualitative analysis, arrange them in increasing group number from 0 to VI.

A. Al^{3+} B. Cu^{2+}
C. Ba^{2+} D. Co^{2+}
E. Mg^{2+}

Choose the correct answer from the options given below:

(1) B, A, D, C, E (2) B, C, A, D, E
(3) E, C, D, B, A (4) E, A, B, C, D

Q86 (a)

Basic radical	Group Number.
(B) Cu^{2+}	II
(A) Al^{3+}	III
(D) Co^{2+}	IV
(C) Ba^{2+}	V
(E) Mg^{2+}	VI

group number increases ↓

Hence, the correct order is B, A, D, C, E