

Assertion (A) : Aqueous solution of ammonium carbonate is basic.

Reason (R) : Acidic/basic nature of a salt solution of a salt of weak acid and weak base depends on K_a and K_b value of the acid and the base forming it.

- (i) Both A and R are true and R is correct explanation of A.
- (ii) Both A and R are true but R is not correct explanation of A.
- (iii) A is true but R is false.
- (iv) Both A and R are false.

Ans : i

As it salt of both weak acid and weak base so it depends both on K_a and K_b