41. Silver nitrate (AgNO₃) solution with sodium chloride (NaCl) forms a white colloidal AgCl. Predict the charge on the colloidal AgCl when the amount of AgNO₃ is lower than the amount of NaCl.

(A) Neutral  (B) Positive
(C) Negative  (D) Zwitter ionic

42. Identify the correct diagram from the following figures that is suitable to fill up the gas jar with ammonia gas

43. How easily can you confirm the presence of charcoal powder in MnO₂?

(A) Flame test
(B) Dry test tube heating
(C) Addition of water
(D) Heating on a charcoal block

44. Predict the pH of an aqueous solution of 10⁻⁸ M HCl.

(A) 8.0  (B)>8.0  (C) <7.0  (D) 0