

2011 AP[®] CHEMISTRY FREE-RESPONSE QUESTIONS (Form B)

- (b) Solid lithium oxide is added to distilled water.

(i) Balanced equation:

(ii) Indicate whether the pH of the resulting solution is less than 7, equal to 7, or greater than 7. Explain.

- (c) A 100 mL sample of 1 *M* strontium chloride solution is mixed with a 100 mL sample of 1 *M* sodium carbonate solution, resulting in the formation of a precipitate.

(i) Balanced equation:

(ii) Describe what will occur if the precipitate is dried and a few drops of 1 *M* hydrochloric acid are added. Explain.