

## Essay {Paper03}

**[SPM08-03-P3] – Correction SPM 09- 3**

(a) What is the relationship between the concentration of Nitric acid and the pH value?

(b) manipulated variable: molarity of Nitric acid

Responding variable: pH value

Fixed variables: type of acid used

(c) If the molarity of Nitric acid increases, the pH value will be decreases

(d) Materials : Nitric with different molarity

Apparatus : pH meter, measuring cylinder

(e) 1. 100 cm<sup>3</sup> of 1.0 mol dm<sup>-3</sup> of Nitric acid is measured by using measuring cylinder.

2. It then poured into a dry beaker.

3. the pH value of the solution is then measured by using a pH meter and recorded.

4. Steps 1 to 3 are repeated by using different concentrations of the acid.

(f) Tabulation data

Molarity of Nitric acid/ mol dm <sup>-3</sup>	1.0	0.1	0.01	0.001	0.0001
pH value					

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