(d) The student found that 22.50 cm<sup>3</sup> of 0.0800 moldm<sup>-3</sup> Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> reacted with 25.00 cm<sup>3</sup> of dilute hydrochloric acid.

$$Na_2B_4O_7 + 2HCl + 5H_2O \rightarrow 2NaCl + 4H_3BO_3$$

(i) Calculate the amount, in mol, of Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub> used.

(ii) Calculate the amount, in mol, of HCl used.

(iii) Calculate the concentration, in moldm<sup>-3</sup>, of the HCL

#### [Total: 12]

#### END OF QUESTION PAPER



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