

# THE MOLE

## MARK SCHEME

Q1.

MASS IN GRAMS	NO. OF MOLES
12g of Mg	0.5
2g of H <sub>2</sub>	2
51g of NH <sub>3</sub>	3
0.25g of C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	0.0014
25g of H <sub>2</sub> O	1.39
134.6 moles of Li <sub>2</sub> O?	4.5
24.0 grams of FeF <sub>3</sub>	.213
458 grams of Na <sub>2</sub> SO <sub>4</sub>	3.22
122 grams of NO <sub>2</sub>	2.6
237 grams of CCl <sub>4</sub>	1.53

(10 marks)

**Q2.**

MOLES	MASS IN GRAMS
1 mole of carbon	12
0.5 moles of HCl	18.25
0.2 moles of CO <sub>2</sub>	8.8
3.7 moles of Na <sub>2</sub> O	230
4.8 moles of NaOH	192
0.5 moles of CaCl <sub>2</sub>	55.5
1.7 moles of H <sub>2</sub> O	30.6
2 moles of Br <sub>2</sub>	160
3.8 moles of C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	684
5.3 moles of H <sub>3</sub> PO <sub>4</sub>	520

(10 marks)