

| 06.2 | Moles of calcium chloride $=3.56 / 111.1=3.204 \times 10^{-2}$ | 1 | AO 2 h |  |
| :---: | :--- | :--- | :--- | :--- |
|  | Moles of calcium sulfate $=3.204 \times 10^{-2} \times 83.4 / 100=2.672 \times 10^{-2}$ | 1 | AO 2 h |  |
|  | Mass of calcium sulfate $=2.672 \times 10^{-2} \times 136.2=3.6398=3.64(\mathrm{~g})$ | 1 | AO 2 h | Answer must be to 3 significant figures |

