**Hong Kong Metropolitan University**

**Jockey Club STEAM Education Resources Sharing Scheme**

**Cal”U”Later**

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| **Group:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**Quantitative Analysis:**

Find out the amount of zinc in a Redoxon tablet:

* \_\_\_\_\_g of Redoxon tablet was used
* Analyses and calculations:
* From the ICP-MS measurement, the zinc concentration of the 10 ml solution

was \_\_\_\_\_\_\_\_\_\_\_\_ppm

* Since the 10 ml solution was prepared by adding \_\_\_\_\_ml of 100 ml Redoxon solution in the volumetric flask,
* The concentration of the 100 ml Redoxon solution was:
* Since the 100 ml Redoxon solution was prepared by \_\_\_\_\_\_\_g of the tablet, and a tablet weighed 4.5 g,
* The amount of zinc in 1 Redoxon tablet was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Conclusion: A Redoxon tablet contained \_\_\_\_\_\_\_\_mg of zinc.**

**Qualitative Analysis:**

**Chemical structures**:



**Structure A Structure B Structure C**

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| **Testing Sample** | **IR spectrum interpretation** | **Structure conclusion**  **(A or B or C)** |
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