

A2 9: Analytical Chemistry Techniques

| Centre No: | | | Candidate No: | | | | | |
|--|-------------------|------------------|----------------------|--------------|--------------|--------------|--------------|-------|
| | Content Reference | Learning Outcome | Assessment Objective | Marks Band 1 | Marks Band 2 | Marks Band 3 | Marks Band 4 | |
| Candidates must submit a portfolio of evidence consisting of a total of five reports, one report for each Content Section. | | | | | | | | |
| Report 1 - Volumetric Analysis | 15.1 | | | 1-3 | 4-6 | 7-9 | 10-12 | |
| | | 15.1.1 | AO1 | | | | | |
| | | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.1.2 | AO2 | | | | | |
| | | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.1.3 | AO3(i) | | | | | |
| | | 15.1.4 | AO3(i) | | | | | |
| | | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.1.5 | AO2 | | | | | |
| | | 15.1.6 | AO2 | | | | | |
| | | 15.1.7 | AO2 | | | | | |
| | | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| 15.1.8 | AO3(i) | | | | | | | |
| | | | 1-7 | 8-14 | 15-21 | 22-28 | | |
| 15.1.9 | AO3(ii) | | | | | | | |
| Report 2 - Colorimetry | 15.2 | | | 1-3 | 4-6 | 7-9 | 10-12 | |
| | | 15.2.1 | AO1 | | | | | |
| | | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.2.2 | AO2 | | | | | |
| | | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.2.3 | AO3(i) | | | | | |
| | | 15.2.4 | AO3(i) | | | | | |
| | | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.2.5 | AO2 | | | | | |
| | | 15.2.6 | AO2 | | | | | |
| | | 15.2.7 | AO2 | | | | | |
| | | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| 15.2.8 | AO3(i) | | | | | | | |
| | | | 1-7 | 8-14 | 15-21 | 22-28 | | |
| 15.2.9 | AO3(ii) | | | | | | | |

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| Report 3 - Chromatography | 15.3 | | | 1-3 | 4-6 | 7-9 | 10-12 |
| | | 15.3.1 | AO1 | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.3.2 | AO2 | | | | |
| | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.3.3 | AO3(i) | | | | |
| | | 15.3.4 | AO3(i) | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.3.5 | AO2 | | | | |
| | | | | 1-3 | 4-6 | 7-9 | 10-12 |
| | | 15.3.6 | AO1 | | | | |
| | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.3.7 | AO3(i) | | | | |
| | | 1-7 | 8-14 | 15-21 | 22-28 | | |
| 15.3.8 | AO3(ii) | | | | | | |
| Report 4 - Calorimetry | 15.4 | | | 1-3 | 4-6 | 7-9 | 10-12 |
| | | 15.4.1 | AO1 | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.4.2 | AO2 | | | | |
| | | 15.4.3 | AO2 | | | | |
| | | | | 1-3 | 4-6 | 7-9 | 10-12 |
| | | 15.4.4 | AO1 | | | | |
| | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.4.5 | AO3(i) | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.4.6 | AO2 | | | | |
| | | 15.4.7 | AO2 | | | | |
| | | 15.4.8 | AO2 | | | | |
| | | 1-7 | 8-14 | 15-21 | 22-28 | | |
| 15.4.9 | AO3(ii) | | | | | | |
| 15.4.10 | AO3(ii) | | | | | | |
| Report 5 - Qualitative Analysis | 15.5 | | | 1-3 | 4-6 | 7-9 | 10-12 |
| | | 15.5.1 | AO1 | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.5.2 | AO2 | | | | |
| | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.5.3 | AO3(i) | | | | |
| | | | | 1-4 | 5-7 | 8-10 | 11-14 |
| | | 15.5.4 | AO2 | | | | |
| | | 15.5.5 | AO2 | | | | |
| | | | | 1-6 | 7-13 | 14-20 | 21-26 |
| | | 15.5.6 | AO3(i) | | | | |
| | | | | 1-7 | 8-14 | 15-21 | 22-28 |
| | | 15.5.7 | AO3(ii) | | | | |
| 15.5.8 | AO3(ii) | | | | | | |

| Assessment Objective | AO Total | Divide By | |
|----------------------|----------|-----------|--------|
| AO1 | | 7 | ___/12 |
| AO2 | | 18 | ___/14 |
| AO3(i)- Practical | | 12 | ___/26 |
| AO3(ii)- Theory | | 7 | ___/28 |
| Total | | | ___/80 |