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| **Answer sheet** | Country code (2 letters) |  | Student number (1-5) |  |

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| --- | --- | --- |
| 2.1 | Volume Mass  Number Charge density  Concentration Charge  Mass of the electron cloud | 0.7 |

|  |  |  |
| --- | --- | --- |
| 2.2 | Derive , with pre-factor | 1.2 |

|  |  |  |
| --- | --- | --- |
| 2.3 |  | 1.0 |

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| 2.4 | Displacement Displaced charge | 0.6 |

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| 2.5a | Expression Value | 0.7 |
| 2.5b | Expression | 0.4 |

|  |  |  |
| --- | --- | --- |
| 2.6a | Expression Expression | 0.7 |
| 2.6b | Expression Value | 0.5 |

|  |  |  |
| --- | --- | --- |
| 2.7a | Expression | 0.5 |
| 2.7b | Value Value | 0.4 |

|  |  |  |
| --- | --- | --- |
| 2.8a | Expression Expression | 1.0 |
| 2.8b | Expression Value | 1.0 |

|  |  |  |
| --- | --- | --- |
| 2.9 | Expression Value | 1.0 |

|  |  |  |
| --- | --- | --- |
| 2.10a | Expression Expression = | 1.2 |
| 2.10b | Values: , , = | 0.3 |

|  |  |  |
| --- | --- | --- |
| 2.11a | Value | 0.6 |
| 2.11b | Value | 0.2 |

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| --- | --- | --- |
|  | **Total** | **12.0** |