**Task 5: Bonding Experiment Marking Grid: Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PRELAB MARKS: | Part marks | Max  Mark | Mark | Comments |
| 1. **Table of properties of materials with different bonding types** |  | **6** |  |  |
| 1. **Dichotomous key of experiments to distinguish between different bonding types** |  | **8** |  |  |
| Dichotomous key –logical order (2) |  |  |  |  |
| Three experiments (3) |  |  |  |  |
| Bonding types distinguished in each step clearly labelled (3) |  |  |  |  |
| 1. **Short procedure and equipment list**   (2 mark expt, 1 mark equipment) |  | **9** |  |  |
| Experiment 1: (3) |  |  |  |  |
| Experiment 2: (3) |  |  |  |  |
| Experiment 3: (3) |  |  |  |  |
| 1. **Safety precautions** |  | **2** |  |  |
| **TOTAL PRELAB** |  | **25** |  |  |

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| **TOTAL PRELAB** |  | **25** |  |  |

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| LABORATORY MARKS |  |  |  |  |
| **Aim written** |  |  |  |  |
| **Table of Results** |  | **10** |  |  |
| Ruled table (1) |  |  |  |  |
| Suitable headings (2) |  |  |  |  |
| Units for current given (2) |  |  |  |  |
| Observations (2) |  |  |  |  |
| Correct identification bonding (3) |  |  |  |  |
| **Discussion of Results** |  | **10** |  |  |
| 1. (1) |  |  |  |  |
| 1. (3) |  |  |  |  |
| 1. (3) |  |  |  |  |
| 1. (1) |  |  |  |  |
| 1. (2) |  |  |  |  |
| **Errors and Uncertainties** |  | **3** |  |  |
| **Conclusion** |  | **2** |  |  |
| **TOTAL LABORATORY MARK** |  | **25** |  |  |

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| **Validation Test Part A:** |  | **22** |  |  |
| **Validation Test Part B:** |  | **13** |  |  |
| **Total Validation Test** |  | **35** |  |  |
| **Scaled to out of 50**  **(= mark \* 50/35)** |  | **50** |  |  |
|  |  |  |  |  |
| **FINAL MARK** |  | **100** |  |  |