**A-LEVEL CHEMISTRY**

**PAPER 2**

**PRACTICE PAPER 13**

Answer all questions

Max 105 marks

2 hours

|  |  |  |
| --- | --- | --- |
|  | Name …………………………………………………………….. |  |
|  | Mark ……../105 ……....% Grade ……… |  |

|  |  |
| --- | --- |
| **1.** |  |
|  | **(Total 6 marks)** |
| **2.** |  |
|  |  |
|  | **(Total 8 marks)** |

|  |  |
| --- | --- |
| **3.** | Name of mechanism: ……………………………………………………………………………………  Mechanism:  (5 marks) |
|  | ……………………………………………………………………………………………………………………………………………………………………………    ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  (2 marks)  **(Total 7 marks)** |
| **4.** | Rate of reaction …………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  Catalyst ..……………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  (2 marks) |

|  |  |
| --- | --- |
|  | Catalyst: …………………………………………………………………………………………………………………………………………………………….  Equation: ……………………………………………………………………………………………………………………………………………………………    Catalyst: …………………………………………………………………………………………………………………………………………………………….  Equation: ……………………………………………………………………………………………………………………………………………………………    Catalyst: …………………………………………………………………………………………………………………………………………………………….  Equation: ……………………………………………………………………………………………………………………………………………………………  (7 marks)  **(Total 9 marks)** |
| **5.** | ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………    ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  (6 marks) |

|  |  |
| --- | --- |
|  | Reagents:………………………………………………………………………………………………………………………………………………  Equation:………………………………………………………………………………………………………………………………………………    Type of mechanism:………………………………………………………………………………………………………………………………………  Structure of product:  (5 marks)  **(Total 11 marks)** |
| **6.** |  |
|  |  |
|  |  |
|  |  |
|  | **(Total 17 marks)** |
| **7.** | …………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  (8 marks) |
|  | ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  ……………………………………………………………………………………………………………………………………………………………………………  (6 marks) |
|  | (1 mark)  **(Total 15 marks)** |

|  |  |
| --- | --- |
| **8.** |  |
|  |  |
|  | **(Total 13 marks)** |
| **9.** |  |
|  |  |
|  |  |
|  |  |
|  | **(Total 12 marks)** |
| **10.** |  |
|  | **(Total 7 marks)** |