**A-LEVEL CHEMISTRY**

**PAPER 3**

**PRACTICE PAPER 15**

Answer all questions

Max 83 marks

1 hour 35 minutes

|  |  |  |
| --- | --- | --- |
|  | Name …………………………………………………………….. |  |
|  | Mark ……../83 ……....% Grade ……… |  |

This paper contains structured questions only

This paper is slightly shorter than a typical Paper 3

|  |  |
| --- | --- |
| **1.** |  |
|  |  |
|  |  |
|  | **(Total 7 marks)** |
| **2.** |  |

|  |  |
| --- | --- |
|  | **(Total 6 marks)** |
| **3.** |  |
|  |  |
|  |  |
|  | **(Total 19 marks)** |
| **4.** |  |
|  | **(Total 9 marks)** |
| **5.** | ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………(2 marks) |
|  | ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………(6 marks) |
|  | ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………(2 marks)**(Total 10 marks)** |
| **6.** |  |
|  | **(Total 8 marks)** |

|  |  |
| --- | --- |
| **7.** | **(Total 4 marks)** |
| **8.** |  |
|  | **(Total 6 marks)** |

|  |  |
| --- | --- |
| **9.** | A reaction scheme starting with benzene is shown below:……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**(Total 3 marks)** |

|  |  |
| --- | --- |
| **10.** | ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………(5 marks) |
|  | (1 mark) |

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|  | ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………(2 marks) |
|  | (3 marks)**(Total 11 marks)** |