

**Monday 14 January 2013 – Morning**

**AS GCE MATHEMATICS**

**4721** Core Mathematics 1

**PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4721 (inserted)
- List of Formulae (MF1)

**Other materials required:**

None

**Duration:** 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number								Candidate number				
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**INSTRUCTIONS TO CANDIDATES**

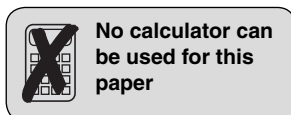
These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Do **not** write in the bar codes.
- You are **not** permitted to use a calculator in this paper.
- Give non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question or is clearly appropriate.

**INFORMATION FOR CANDIDATES**

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [ ] at the end of each question or part question on the Question Paper.
- **You are reminded of the need for clear presentation in your answers.**
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **4** pages. Any blank pages are indicated.



<b>1 (i)</b>	
<b>1 (ii)</b>	

<b>2 (i)</b>	
<b>2 (ii)</b>	
<b>2 (iii)</b>	
<b>3 (i)</b>	
<b>3 (ii)</b>	





<b>6 (i)</b>	
<b>6 (ii)</b>	
<b>6 (iii)</b>	

<b>7 (i)</b>	
<b>7 (ii)</b>	
<b>7 (iii)</b>	







<b>9 (iii)</b>	



<b>10 (continued)</b>	



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