

Monday 23 January 2012 – Morning

A2 GCE MATHEMATICS

4730 Mechanics 3

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4730 (inserted)
- List of Formulae (MF1)

Other materials required:

- Scientific or graphical calculator

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 permitted to use a scientific or graphical 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.
 - The acceleration due to gravity is denoted by $g \text{ m s}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use $g = 9.8$.

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.

1 (i)	
1 (ii)	

2 (i)	

2 (ii)	

3 (i)	

3 (ii)	

4 (i)	
4 (ii)	

5 (i)	
	5 (ii)

5 (ii) (continued)	
5 (iii)	

6 (i)	
6 (ii)	

6 (ii)	(continued)
6 (iii)	

7 (ii)	
7 (iii)	

7 (iii)	(continued)



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