

**ADVANCED SUBSIDIARY GCE  
MATHEMATICS (MEI)**

Mechanics 1

**4761****PRINTED ANSWER BOOK**

Candidates answer on this printed answer book.

**OCR supplied materials:**

- Question paper 4761 (inserted)
- MEI Examination Formulae and Tables (MF2)

**Other materials required:**

- Scientific or graphical calculator

**Thursday 16 June 2011****Afternoon****Duration: 1 hour 30 minutes**

Candidate forename					Candidate surname				
--------------------	--	--	--	--	-------------------	--	--	--	--

Centre number						Candidate number			
---------------	--	--	--	--	--	------------------	--	--	--

**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. Pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- 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 advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is **72**.
- The printed answer book consists of **16** pages. The question paper consists of **8** pages. Any blank pages are indicated.

## **Section A (36 marks)**



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

4 (i)

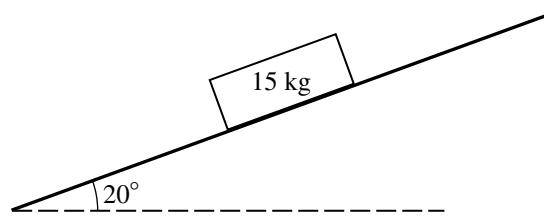


Fig. 4

4 (ii)





6 (i)

<b>6 (ii)</b>	

**Section B (36 marks)**

<b>7 (i)</b>	
<hr/>	
<b>7(ii)(A)</b>	

7(ii)(B)	
7 (iii)	

<b>7 (iv)</b>	

7 (v)

<b>8 (i)</b>	
<b>8 (ii)</b>	
<b>8 (iii)</b>	

<b>8 (iv)</b>	
<hr/>	
<b>8 (v)</b>	
	<b>(answer space continued overleaf)</b>

