

**OCR**

Oxford Cambridge and RSA

**Tuesday 9 June 2015 – Morning****AS GCE MATHEMATICS (MEI)****4761/01 Mechanics 1****PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4761/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

**Other materials required:**

- Scientific or graphical calculator

**Duration:** 1 hour 30 minutesCandidate  
forenameCandidate  
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 inside 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.
- 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**

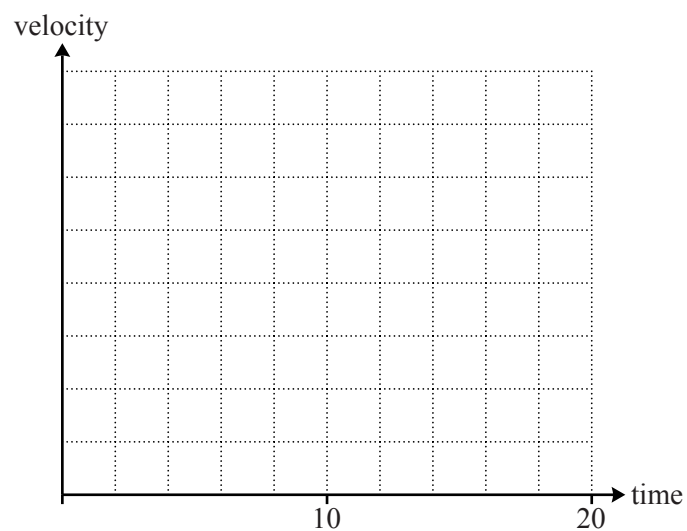
This information is the same on the Printed Answer Book and the Question Paper.

- 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.

**THE ANSWER SPACE FOR QUESTION 1 BEGINS ON PAGE 3.**

**PLEASE DO NOT WRITE IN THIS SPACE**

**7 (ii) Spare copy of diagram for question 7 (ii)**





2 (i)

[illegible]

[illegible]

[illegible]

<b>4 (i)</b>	
<b>4 (ii)</b>	
<b>4 (iii)</b>	



<b>4 (iv)</b>	
<b>5 (i)</b>	
<b>5 (ii)</b>	

<b>5 (iii)</b>	
<b>5 (iv)</b>	

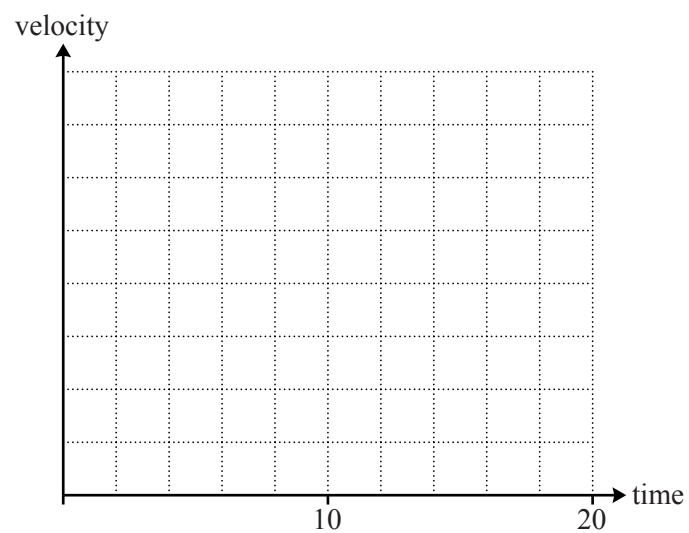


<b>6 (ii)</b>	<b>(continued)</b>
<b>6 (iii)</b>	

<b>6 (iv)</b>	

[illegible]

A spare copy of this diagram can be found on page 2.



<b>7 (iii)</b>	
	<b>7 (iv)</b>

7 (v)(A)	
7 (v)(B)	