

**Wednesday 8 June 2016 – Morning**

**AS GCE MATHEMATICS (MEI)**

**4752/01** Concepts for Advanced Mathematics (C2)

**PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4752/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

**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 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.** If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- 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.

**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 **12** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

Section A (36 marks)

<b>1 (i)</b>	
<b>1 (ii)</b>	
<b>2 (i)</b>	
<b>2 (ii)</b>	
<b>3</b>	

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

<b>6(i)</b>	
<b>6(ii)</b>	
<b>7(i)</b>	

<b>7(ii)</b>	
<b>8(i)</b>	
<b>8(ii)</b>	





<b>10 (i)</b>	
<b>10 (ii)</b>	
<b>10 (iii)</b>	

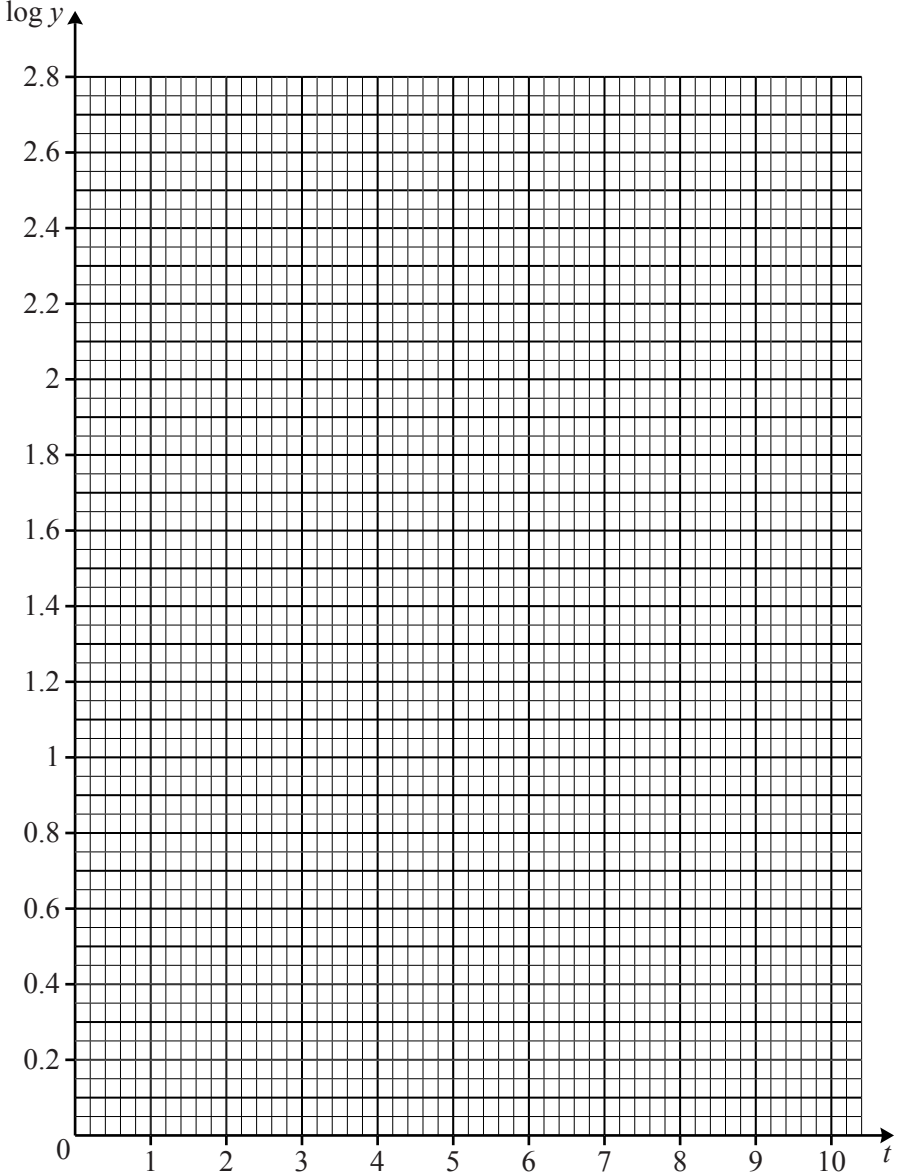


<b>10 (iv)</b>	

11 (i)


11 (ii)

First complete the copy of the table on the next page.



The work space for this part is continued on the next page.

<b>11 (ii)</b>	<b>continued</b>										
	$t$	1	2	3	4	5	6	7	8	9	10
	$y$	7	10	24	32	40	38	63	96	234	480
	$\log_{10}y$	0.85	1	1.38	1.51	1.60					
	<b>11 (iii)</b>										

