



# Friday 5 June 2015 - Morning

## AS GCE MATHEMATICS (MEI)

4771/01 Decision Mathematics 1

### **PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

### OCR supplied materials:

- Question Paper 4771/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

### Other materials required:

• Scientific or graphical calculator

**Duration:** 1 hour 30 minutes



Candidate forename				Candidate surname			
Centre numb	er			Candidate nu	ımber		

### **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.

### 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 (24 marks)

1 (i)	A B	C
1 (ii)		
1 (iii)		
1 (iv)		

2 (i)	i	1	2	3					
	$m_1$	2							_
	$c_1$	8							
	$m_2$		2						-
	$c_2$		5						_
	$m_3$			4					-
	$c_3$			3					_
	j								_
	а								-
	b								_
	$d_1$								_
	$x_1$								_
	$y_1$								
	$d_2$								
	$x_2$								
	$y_2$								-
	$d_3$								
	$x_3$								-
	$y_3$								
			I		I		1	1	]
	Print a	rea							
	L								
2 (ii)									
-									
-									

3 (i)	
3 (ii)	
	(answer space continued on next page)

# PLEASE DO NOT WRITE IN THIS SPACE

continued	)	A spare cop	py of this graph can	be found on page 11

# Section B (48 marks)

4 (a)	A	B
	F •	• C
	E E	D D
4(b)(i)	A ●	B ●
	F ●	• C
	● E	• D

4(b)(ii)	
<b>4(b)(iii)</b>	
,	
<b>4(b)(iv)</b>	

5 (i) &	
5 (i) & (ii)	
()	

5 (iii)															
(iv)															
	As	pare	e cop	by of	this	diag	gram	can	be f	foun	d on	pag	e 12		
	As	pare	e cop	y of	this	diag	gram	can	be f	foun	d on	pag	e 12		
	As	pare	e cop	y of	this	diag	gram	can	bef	foun	d on	pag	e 12		
	As	pare	e cop	by of	this	diag	gram	can	be f	Coun	d on	pag	e 12		

6 (i)	
6 (ii)	Random digits: 30860 01286
6 (iii)	
6 (iv)	Random digits: 20891 79123 06526

# 5 (iii) Spare copy of the diagram for question 5 (iii) Spare copy of the diagram for question 5 (iv) 5 (iv)



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