

OCR

Oxford Cambridge and RSA

Wednesday 24 May 2017 – Morning

A2 GCE MATHEMATICS

4737/01 Decision Mathematics 2

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4737/01 (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 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.
- 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 barcodes.
- 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.

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 **8** pages. Any blank pages are indicated.

BLANK PAGE

PLEASE DO NOT WRITE ON THIS PAGE

1 (i)

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1 (ii)**1 (iii)**

2 (i)	
2 (ii)	
2 (iii)(a)	
2 (iii)(b)	
2 (iv)	

3 (i)

3 (ii)

Stage	State	Action	Weight	Working	Maximin
3	0	0	5		
	1	0	8		
2	0	0	7		
		1	4		
	2	0	4		
		1	6		
1	0	0	3		
		1	5		
	1	1	3		
		2	2		
0	0	0	6		
		1	4		

4 (i)	

4 (ii)	
4 (iii)	
4 (iv)	

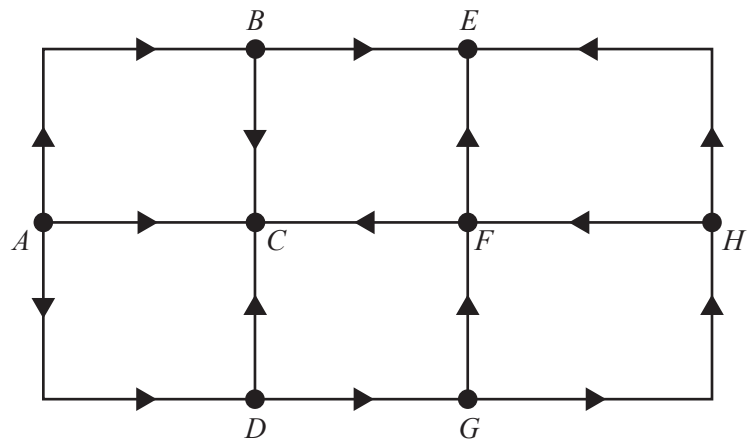
5 (i)																															
5 (ii)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">Event</td> <td>①</td> <td>②</td> <td>③</td> <td>④</td> <td>⑤</td> <td>⑥</td> <td>⑦</td> <td>⑧</td> <td>⑨</td> </tr> <tr> <td>Early time</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Late time</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Event	①	②	③	④	⑤	⑥	⑦	⑧	⑨	Early time										Late time									
Event	①	②	③	④	⑤	⑥	⑦	⑧	⑨																						
Early time																															
Late time																															
5 (iii)																															
5 (iv)	<p style="text-align: right; margin-right: 50px;">Time elapsed</p>																														

5 (v)	

5 (vi)	

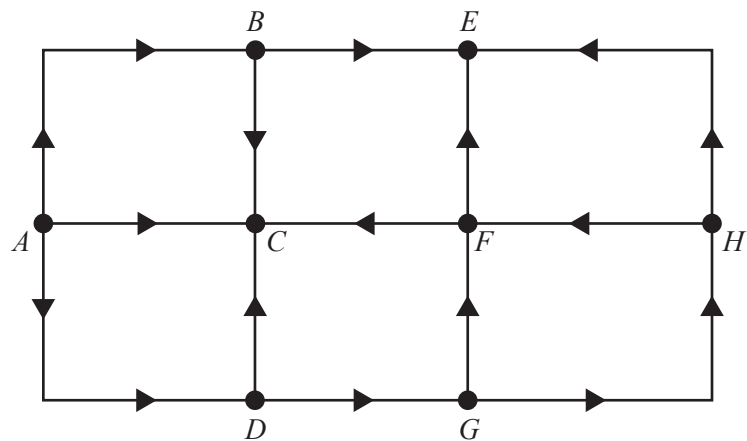
6 (i)	
6 (ii)	
6 (iii)	
6 (iv)	
6 (v)	

6 (vi)



6 (vii)

Diagram if needed for working.



ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

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