

Paper Reference(s)

6690

Edexcel GCE
Decision Mathematics D2

Advanced/Advanced Subsidiary

May 2003

Answer Booklet

1. (a)

(b)

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2. (a)
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- (b)

Order of arc selection:

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- (c)
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-
- (d)
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-
-
-

New upper bound:.....

Tour:.....

You may not need to use all these grids

3. (a)

	Talk I	Talk II	Talk III	Talk IV
Clive				
Julie				
Nicky				
Steve				

	Talk I	Talk II	Talk III	Talk IV
Clive				
Julie				
Nicky				
Steve				

	Talk I	Talk II	Talk III	Talk IV
Clive				
Julie				
Nicky				
Steve				

	Talk I	Talk II	Talk III	Talk IV
Clive				
Julie				
Nicky				
Steve				

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Earliest time meeting could end:.....

(b)

	Talk I	Talk II	Talk III	Talk IV
Clive				
Julie				
Nicky				
Steve				

4.

	<i>B</i> plays I	<i>B</i> plays II	<i>B</i> plays III
<i>A</i> plays I	2	−1	3
<i>A</i> plays II	1	3	0
<i>A</i> plays III	0	1	−3

(a)

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(b)

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(c)

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(d)

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5.

	Airport <i>D</i>	Airport <i>E</i>	Airport <i>F</i>	Cars available
Garage <i>A</i>	£20	£40	£10	6
Garage <i>B</i>	£20	£30	£40	5
Garage <i>C</i>	£10	£20	£30	8
Cars required	6	9	4	

(a)

	Airport <i>D</i>	Airport <i>E</i>	Airport <i>F</i>
Garage <i>A</i>			
Garage <i>B</i>			
Garage <i>C</i>			

(b)

(c)

You may not need to use all of these grids

5. (continued)

	Airport <i>D</i>	Airport <i>E</i>	Airport <i>F</i>
Garage <i>A</i>			
Garage <i>B</i>			
Garage <i>C</i>			

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	Airport <i>D</i>	Airport <i>E</i>	Airport <i>F</i>
Garage <i>A</i>			
Garage <i>B</i>			
Garage <i>C</i>			

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	Airport <i>D</i>	Airport <i>E</i>	Airport <i>F</i>
Garage <i>A</i>			
Garage <i>B</i>			
Garage <i>C</i>			

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