Paper Reference(s)

6690 **Edexcel GCE**Decision Mathematics D2

Advanced/Advanced Subsidiary

May 2003

Answer Booklet

1.	(a)
	(a)
	(4)

(b)	

(a)	
(b)	
	Order of arc selection:
	Order of arc selection:
(c)	Order of arc selection:
	Order of arc selection:
	Order of arc selection:
(c)	Order of arc selection:
(c)	
(c)	
(c)	
(c)	
(c) (d)	

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				

Leave
blank

Earliest time meeting could end:

(*b*)

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

4.

	B plays I	B plays II	B plays III
A plays I	2	-1	3
A plays II	1	3	0
A plays III	0	1	-3

(a)	
(b)	
(c)	

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5.

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

(a)

(01)		A:	A *	A *	
	Γ	Airport D	Airport E	Airport F	
	Garage A				
	Garage B				
	Garage C				
(b)					
(a)					
(c)					•••••

You may not need to use all of these grids

ed)	Airport D	Airport E	Airport F
Garage A			
Garage B			
Garage C			
	Airport D	Airport E	Airport F
Garage A	Timport	7 Import 2	7 Import 1
Garage B			
Garage C			
- 11 11 21 -			
		•••••	
	A: , , D	A	A:
	Airport D	Airport E	Airport F
Garage A			
Garage B			
Garage C			

6.	(a)	 	 	 	 	

(b)

Stage	Demand	State	Action	Destination	Value
1 (Nov)	2	0 (in stock)	(make) 2	0	200
		1 (in stock)	(make) 1	0	240
		2 (in stock)	(make) 0	0	80
2 (Oct)	5	1	4	0	590 + 200 = 790
		2	3	0	
			4	1	
		3	2		

Production schedule

Month	August	September	October	November
Number of cycles to be made				

	Cost.
(c)	

END