Centre No.					Pape	er Refer	ence			Surname	Initial(s)
Candidate No.			6	6	8	9	/	0	1	Signature	

Paper Reference(s)

## 6689/01

## **Edexcel GCE**

## **Decision Mathematics D1 Advanced/Advanced Subsidiary**

Wednesday 23 January 2013 - Morning

## **Answer Book**

Do not return the question paper with the answer book Examiner's use only

Team Leader's use only

Question Number	Leave Blank
1	
2	
3	
4	
5	
6	
7	
Total	

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P41490A
W850/R6689/57570 5/5/5/6/6/



Turn over

**PEARSON** 

1. You may not need to use all the rows in this table

N	E	R	Is $-10^{-6} < R - E < 10^{-6}$ ?

Final output \_\_\_\_\_



	Leave
2.	blank
4.	
	1

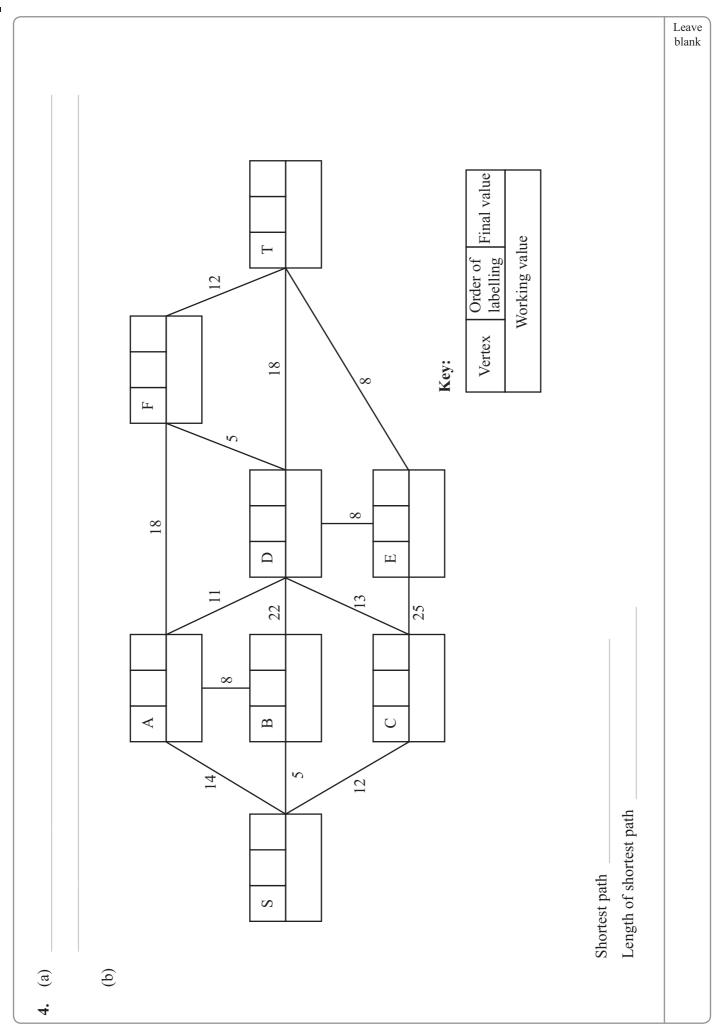


3. **C** •  $\mathbf{C}$  $\mathbf{G}$  $\mathbf{G}$ J 3 J  $\mathbf{0}$  $\mathbf{o}$ R R Figure 2 Figure 3

Leave blank

estion 3 continued			
C •	• 1	C •	• 1
G ●	• 2	G •	• 2
J •	• 3	J •	• 3
N •	• 4	N •	• 4
0 •	• 5	0 •	• 5
R ●	• 6	R ●	• 6

(Total 8 marks)



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Question 4 continued (c) Shortest distance from S to F	 F													
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5.

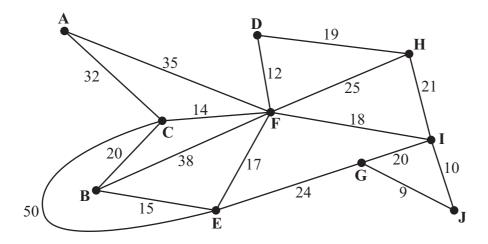
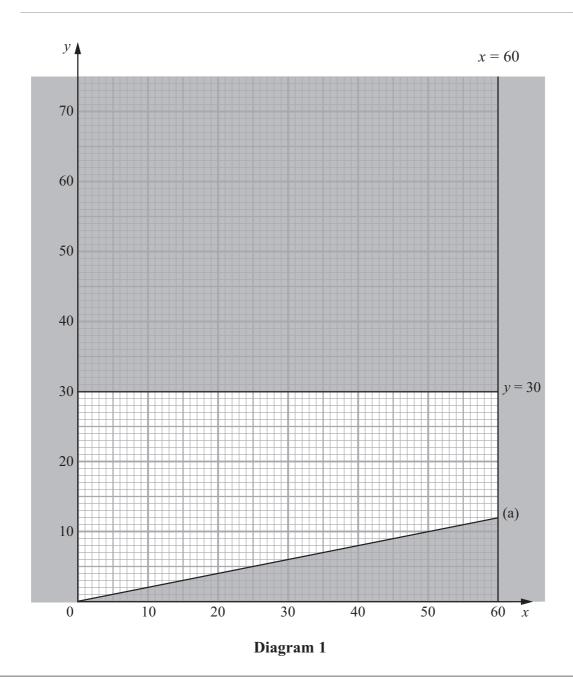


Figure 5

[The weight of the network is	3/9]



6.





Leave blank

7. (a)

(b)

E (4)

F (7)

K (4)

L (2)

J (4)

M (3)

Key:

Early event time

Late event time

Diagram 1

(c) (d)		al activ										
(e)												
0	2	4	6	8	10	12	14	16	18	20	22	24
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(f)	Activ	ities tha	at must	be hap	pening	at time	5.5					
(g)												
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