

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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Pearson Edexcel Level 3 GCE

Monday 24 June 2024

Afternoon (Time: 1 hour 30 minutes)

**Paper
reference**

9FM0/4D

Further Mathematics

Advanced

PAPER 4D: Decision Mathematics 2

Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

P72803A

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1.

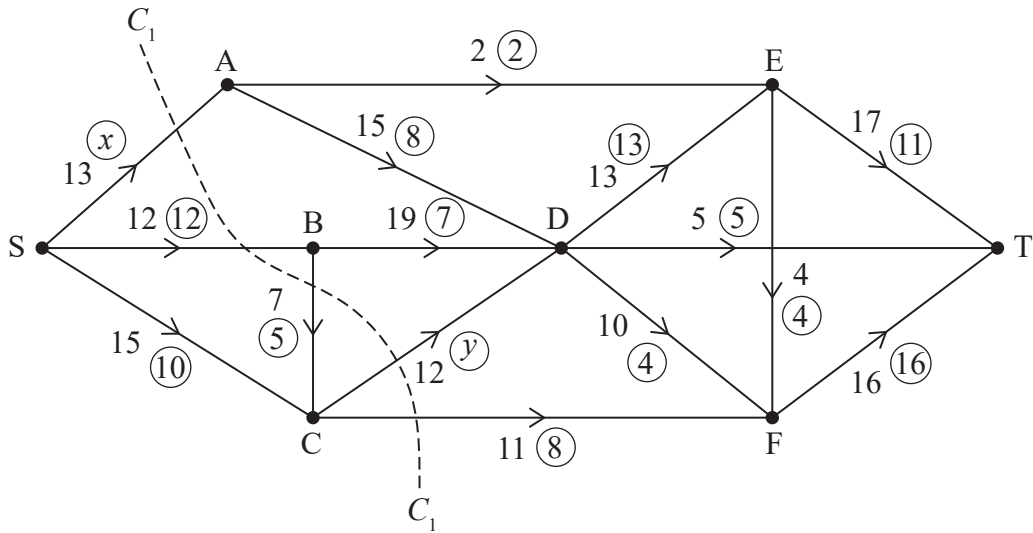


Figure 1



Question 1 continued

(f) (i)

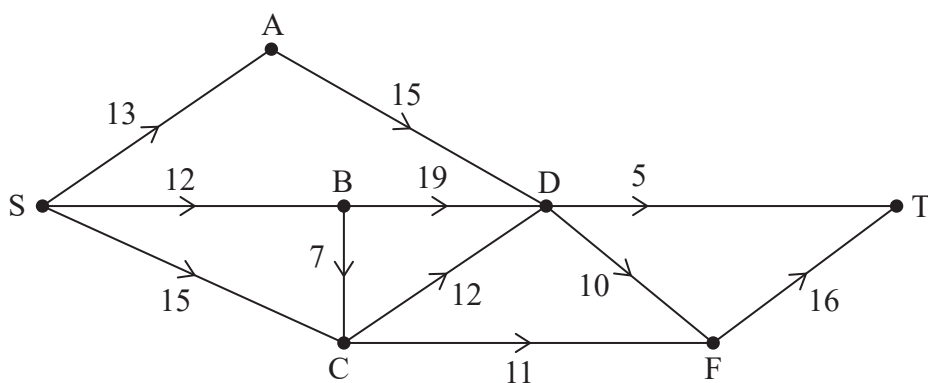


Diagram 1

(Total for Question 1 is 10 marks)



P 7 2 8 0 3 A 0 3 2 0

2.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 2 continued

Handwriting practice area with horizontal lines.

(Total for Question 2 is 3 marks)



3.

(a)

(b)

	A	B	C	D	Supply
E	23	28	22		21
F	26	19	29		32
G	29	24	20		29
H	24	26	19		23
Demand	45	19	23		

Table 1*You may not need to use all of these tables.*

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				



Question 3 continued

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				

	A	B	C	D
E				
F				
G				
H				

(Total for Question 3 is 12 marks)



DO NOT WRITE IN THIS AREA

Question 4 continued

Handwriting practice area with horizontal lines.

(Total for Question 4 is 9 marks)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

5.



DO NOT WRITE IN THIS AREA

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



(a)

(a)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 6 continued

Stage	State	Action	Destination	Value

Latest time Elena’s journey can start: _____

(b) Route: _____

(Total for Question 6 is 10 marks)

7.

		Player B		
		Option X	Option Y	Option Z
Player A	Option R	3	2	-3
	Option S	4	-2	1
	Option T	-1	3	6

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

The Simplex tableau can be found at the bottom of page 15.



DO NOT WRITE IN THIS AREA

Question 7 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 7 continued

Lined area for writing the answer to Question 7.

(Total for Question 7 is 13 marks)



8.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Question 8 continued

Lined area for writing the answer to Question 8.



Question 8 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 8 is 8 marks)

TOTAL FOR PAPER IS 75 MARKS

