

Paper Reference 9FM0/4D
Pearson Edexcel Level 3 GCE

Further Mathematics
Advanced
PAPER 4D: Decision Mathematics 2

Total Marks

Monday 24 June 2024 – Afternoon
Time: 1 hour 30 minutes

Answer Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

Read the instructions on the next page.

INSTRUCTIONS

Do not return the Question Paper with the Answer Booklet.

**THIS ANSWER BOOKLET MUST BE
RETURNED WITH THE DIAGRAM BOOKLET AT
THE END OF THE EXAMINATION.**

1. Refer to Diagram 1 and Diagram 2 in the Diagram Booklet.

Answer lines continue on the next three pages.

1. continued.

This image shows a blank 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.

Turn over

1. continued.

[illegible]

Turn over

1. continued.

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(continued on the next page)

Turn over

1. continued.

(f) (i)

(Total for Question 1 is 10 marks)

2. Answer lines continue on the next five pages.

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2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

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(Total for Question 2 is 3 marks)

Turn over

3. Refer to Diagram 3, Diagram 4 and Diagram 5 in the Diagram Booklet.

(a)

(continued on the next page)

3. continued.

You may not need to use all of these tables.

Answer lines and tables continue on the next eight pages.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

	A	B	C	D
E				
F				
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H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

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

(Total for Question 3 is 12 marks)

4. Refer to Diagram 6 in the Diagram Booklet.

(a) (i)

(continued on the next page)

4. (a) continued.
(ii)

	P	Q	R	S
A				
B				
C				
D				

Spare copy

	P	Q	R	S
A				
B				
C				
D				

4. (a) (ii) continued.

Answer lines continue on the next page.

[illegible]

Turn over

4. (a) (ii) continued.

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Turn over

4. continued.

Answer lines continue on the next two pages.

4. continued.

[illegible]

Turn over

4. continued.

[illegible]

(Total for Question 4 is 9 marks)

Turn over

- 5. Refer to Diagram 7 in the Diagram Booklet.**

Answer space and lines continue on the next four pages.

5. continued.

5. continued.

5. continued.

5. continued.

This image shows a blank 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.

(Total for Question 5 is 10 marks)

6. Refer to Diagram 8 and Diagram 9 in the Diagram Booklet.

(a) Latest time Elena's journey can start:

(b) Route: _____

(Total for Question 6 is 10 marks)

- 7. Refer to Diagram 10 and Diagram 11 in the Diagram Booklet.**

Answer lines continue on the next ten pages.

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Turn over

7. continued.

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7. continued.

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7. continued.

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7. continued.

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Turn over

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7. continued.

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Turn over

7. continued.

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Turn over

7. continued.

(continued on the next page)

7. continued.

b.v.	V	p_1	p_2	p_3					Value
P									

(continued on the next page)

7. continued.

Spare copy

b.v.	V	p ₁	p ₂	p ₃					Value
P									

(Total for Question 7 is 13 marks)

8. Answer lines continue on the next eight pages.

[illegible]

Turn over

8. continued.

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8. continued.

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Turn over

8. continued.

[illegible]

Turn over

8. continued.

[illegible]

Turn over

8. continued.

[illegible]

Turn over

8. continued.

[illegible]

Turn over

8. continued.

[illegible]

(Total for Question 8 is 8 marks)

TOTAL FOR PAPER IS 75 MARKS

END OF PAPER