

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

Total Marks

Further Mathematics
Advanced
PAPER 4D: Decision Mathematics 2

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.

[illegible]

1. continued.

[illegible]

Turn over

1. continued.

[illegible]

Turn over

1. continued.

[illegible]

(continued on the next page)

1. continued.

(f) (i)

(Total for Question 1 is 10 marks)

2. Answer lines continue on the next five pages.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. 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 2 is 3 marks)

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				

Turn over

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				
G				
H				

3. continued.

	A	B	C	D
E				
F				
G				
H				

3. continued.

(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				

(continued on the next page)

Turn over

4. (a) (ii) continued.

Answer lines continue on the next page.

4. (a) (ii) 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.

(continued on the next page)

Turn over

4. continued.

Answer lines continue on the next two pages.

[illegible]

Turn over

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.

Turn over

5. continued.

(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.

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.

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

Turn over

7. continued.

[illegible]

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)

Turn over

7. continued.

Spare copy

b.v.	V	p_1	p_2	p_3					Value
P									

(Total for Question 7 is 13 marks)

Turn over

8. Answer lines continue on the next eight pages.

[illegible]

8. continued.

[illegible]

Turn over

8. continued.

[illegible]

Turn over

8. continued.

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

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