

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

**Total Marks**

# **Further Mathematics**

**Advanced**

**Paper 3D: Decision Mathematics 1**

**Monday 24 June 2019 – Morning**

# **Answer Book**

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

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

**Read the instructions on the next page.**

**X61182A**

**INSTRUCTIONS**

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

1.

## 2.1

# 1.7

# 3.0

1.9

## 3.2

# 1.2

### 3.3

# 1.4

# 1.5

## 0.2

**Answer lines continue on the next six 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.

1. continued.

2·1

1·7

3·0

1·9

3·2

1·2

3·3

1·4

1·5

0·2

1. continued.

2·1

1·7

3·0

1·9

3·2

1·2

3·3

1·4

1·5

0·2

1. continued.

2·1

1·7

3·0

1·9

3·2

1·2

3·3

1·4

1·5

0·2

1. continued.

2·1

1·7

3·0

1·9

3·2

1·2

3·3

1·4

1·5

0·2

1. continued.

2·1

1·7

3·0

1·9

3·2

1·2

3·3

1·4

1·5

0·2



1. continued.

2·1	1·7	3·0	1·9	3·2
1·2	3·3	1·4	1·5	0·2

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(Total for Question 1 is 8 marks)

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

Answer lines continue on the next eight 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.**

[illegible]

**Turn over**

**2. continued.**

[illegible]

**Turn over**



**2. continued.**

[illegible]

**Turn over**

**2. continued.**

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**(Total for Question 2 is 14 marks)**

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- 3. Refer to Diagram 3, Diagram 4, Diagram 5 and Diagram 6 in the Diagram Book.**

**Answer lines continue on the next five pages.**

[illegible]

**3. continued.**

[illegible]

**Turn over**

**3. continued.**

[illegible]

**Turn over**

**3. continued.**

[illegible]

**Turn over**

**3. continued.**

[illegible]

**Turn over**

**3. continued.**

[illegible]

**(Total for Question 3 is 14 marks)**

**Turn over**



4. Refer to Diagram 7 and Diagram 8 in the Diagram Book.

Answer lines continue on the next three pages.

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**4. continued.**

[illegible]

**Turn over**

**4. continued.**

[illegible]

**Turn over**

**4. continued.**

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**(Total for Question 4 is 9 marks)**

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**5. Refer to Diagram 9 in the Diagram Book.**

**It shows a precedence table.**

**Answer space and lines continue on the next five pages.**

5. continued.

5. continued.

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**5. continued.**

[illegible]

**Turn over**



**5. continued.**

[illegible]

**Turn over**

5. continued.

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(Total for Question 5 is 6 marks)

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6. Refer to Diagram 10 and Diagram 11 in the Diagram Book.

Answer lines continue on the next ten pages.

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**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**



**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

**6. continued.**

[illegible]

**Turn over**

6. continued.

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(Total for Question 6 is 12 marks)

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**7. Refer to Diagram 12 in the Diagram Book.**

**Answer lines continue on the next eight pages.**

[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.**

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 7 is 12 marks)**

**TOTAL FOR PAPER IS 75 MARKS**

**END OF PAPER**